

logistic: Name AnLg

8.75/12 → (7.375/6)

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

~~no raw R code or output~~

all pages numbered

max 10 pages

no blurry plots (NOT png)

- too many digits
imprecise

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

+ pair plots

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

methods, not R fns

define all terms

AIC, LRT

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

- Define all performance metrics

5.75/8

Y 1 (OK) ~~log (P_{tp})~~

6. Write out final estimated model mathematically

hat on response variable

max 2 sig digits (after decimal) on coeffs

0.75 7. Plots:

label size (not too small)

informative captions

placement

explanations

0.75 8. Conclusions

*use paragraphing
be specific*

2. state and interpret main findings

not done?

6.75 9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

RoLa

7.75 / 12 → 3.875 / 6

1. Formatting:

all margins 2.5cm

-(too many digits)
informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

imprecise

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

+ pairs plots

4. Model fitting:

give mathematical definition of model **no**

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

LRT
2 3 in Table 2

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.5 / 8

0.75 (ok) $\log_{10}(P)$

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

be specific 'rigorous'?
2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

④ Don't need to re-do

logistic: Name Yola

10/12 → ~~8/6~~ + 6/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

imprecise

brief background and statement of scientific question

all variables defined

3. EDA:

1/3/5 univariate numerical

bivariate numerical (cor)

1/2 univariate graphical

bivariate graphical

4. Model fitting:

very good

give mathematical definition of model

2/2 state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

(Inference from log reg relies...)
(not validate suitability)

CLEARLY state model assumptions: + give **PRIMARY** references

- 1. binary outcome 2. independent obs
- 3. linear relation between logit and linear predictor
- 4. no multicollinearity 5. no outliers (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

(only numeric)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

+ Define all performance metrics

2/8

(OK)

Top

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

Vague

1. recap analysis

+ EDA

2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

Fr LaR

9.25 / 12 → 4.625 / 6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

Don't need Missing / Complete columns

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

all pairs

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define
+ all performance metrics

(OK)

logit p

6. Write out final **estimated** model **mathematically**

hat on response variable max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small) informative captions
placement explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

complicated EDA

be specific - not correct

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

Jili

9/12 → 4.5/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

somewhat imprecise

all variables defined

3. EDA:

1.75/1 univariate numerical

bivariate numerical (cor) *(as a matrix)*

2 univariate graphical

bivariate graphical

Square

4. Model fitting:

1.5/1 give mathematical definition of model

not +ε + define logit

1.5/2 state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

explain your stepwise procedure

define all terms

5. Model assessment:

1.5/2 **CLEARLY** state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

- SQUARE ROC curve
- Define performance metrics

6/8

6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite **PRIMARY** refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name RaLi

8.5/12 → 4.25/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

~~no raw R code or output~~

all pages numbered

~~max 10 pages~~

~~no blurry plots (NOT png)~~

2. Introduction/Background:

~~brief background and statement of scientific question~~

all variables defined

3. EDA:

~~2/2 univariate numerical~~

bivariate numerical (cor)

~~univariate graphical~~

bivariate graphical

4. Model fitting:

~~- All results in a table, hard to follow~~

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

~~CLEARLY~~ describe how model selected

~~stepwise = ?~~

~~define all terms~~

~~AIC~~

5. Model assessment:

~~2 CLEARLY state model assumptions: + give PRIMARY references~~

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

~~clearly explain~~

scatterplots of logit vs. predictors (linearity assumption)

~~DEFINE -> Cook's distance / standardized residuals (outliers)~~

vif (to identify multicollinearity)

~~+ Define~~

~~6/8~~

1 / 1 (OK) : ~~log₁₀(P)~~

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

placement

informative captions

explanations

8. Conclusions

1. recap analysis

(+ EDA)

~~be specific~~

2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.5 / 4

④ Don't need to re-do

logistic: Name An Ma

10.75 / 12 → 5.375
→ 6/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief background and statement of scientific question *imprecise*

all variables defined

3. EDA:

1/2 univariate numerical

bivariate numerical (cor)

1/2 univariate graphical

bivariate graphical

4. Model fitting:

very clear

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

- 2/2
1. binary outcome
 2. independent obs
 3. linear relation between logit and linear predictor
 4. no multicollinearity
 5. no outliers
 - (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

7.75 / 8

0.75

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)
placement

informative captions
explanations

0.25

8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

Al Ma de Fr 6.75/12 → 3.375/6

1. Formatting:

all margins 2.5cm

- too many digits
informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 10 pages

(don't need R details) put big plots/tables in appendix

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

all summary stats

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

- incorrect interpretations

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms AIC, deviances

$\hat{\beta}$'s for numerical values

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

+ explanations

4/8

YI
6. Write out final *estimated* model **mathematically**

hat on response variable max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small) informative captions

placement explanations

Q. 25
8. Conclusions

1. recap analysis

2. state and interpret main findings

not correct

Q. 5
9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

An Mi

7.75/12 → 3.875/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max **10** pages

+ Don't need contents
informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

0.75/1

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

1.5/2

3. EDA: exploratory (not 'initial')

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

not Pearson for
Categorical

1/2

4. Model fitting:

use paragraphs
give mathematical definition of model
your explanation is very hard to follow
+ unclear

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

explain stepwise

define all terms

AIC, Variable importance, LRT

5. Model assessment:

assess not 'verify'

CLEARLY state model assumptions: + give **PRIMARY** references

- First, then separate p
1. binary outcome
 2. independent obs
 3. linear relation between logit and linear predictor
 4. no multicollinearity
 5. no outliers
 - (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

(don't need for categorical predictors)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.25/8

(not clear)

6. Write out final **estimated** model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)
placement

informative captions
explanations

8. Conclusions

1. recap analysis

~~be specific~~ incorrect
2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

ArMo

8.75 / 12 → 4.375 / 6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output
Don't need R details
max 10 pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

(ok) univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

First, before fitting

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

LRT add ORs to results table

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

VIF (to identify multicollinearity)

Define

6/8

1/1 (OK) 10/10
6. Write out final *estimated* model **mathematically**

hat on response variable max **2 sig digits** (after decimal) on coeffs

7. Plots:

0.75
label size (not too small)
placement

informative captions

explanations

0.5
8. Conclusions

1. recap analysis

(*Implicit EDA*)

2. state and interpret main findings

what does 'stability'
mean?
vague

be specific *spell check*

0.5
9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.75 / 4

logistic: Name

MaMo

7.75/12 → 3.875/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

- too many digits

2. Introduction/Background:

brief background and statement of scientific question

very unclear + imprecise

all variables defined

3. EDA:

plots too small

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

pairs plots

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

why these models only?

define all terms

AIC

put results in a table

5. Model assessment:

not 'ensure validity'

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome 2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity 5. no outliers (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.25/8

(OK) (log P)

6. Write out final estimated model mathematically

hat on response variable

max 2 sig digits (after decimal) on coeffs

0.75 / 7. Plots: Blank space

label size (not too small)
placement

informative captions
explanations

0.25 / 8. Conclusions vague
1. recap analysis

be specific not 'confirms'
2. state and interpret main findings
spell check

0.5 / 9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name

SaMo

9.75/12 → A. 875/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

1/2 univariate numerical

bivariate numerical (cor)

1/2 univariate graphical

bivariate graphical

4. Model fitting:

2/2 give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

criterion AIC

(not a)

5. Model assessment:

1.5/2 **CLEARLY** state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE > Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

7.25/8

7.25/8

(y not defined)

6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)
placement

informative captions
explanations

8. Conclusions *sage*

1. recap analysis

2. state and interpret main findings
be specific

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations
Please re-write copied sections

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

FrMu 9.5 / 12 → 4.75 / 6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

0.75/1 2. Introduction/Background:

brief background and statement of scientific question *imprecise*

all variables defined

tumor size + age also ordered

3. EDA:

2/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1.25/2 4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC / LRT

5. Model assessment:

CLEARLY state model assumptions: + **(give PRIMARY references)**

- 1.5/2 1. binary outcome 2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity 5. no outliers (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

(ok if don't do for categorical)

DEFINE > Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

↳ + Define

6.5/8

(OK) log(F_p)

6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite **PRIMARY** refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name

Ja Mu

8.25/12 → 4.125/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

2. Introduction/Background:

use paragraphs
brief background and statement of scientific question

all variables defined

3. EDA:

all summary stats

[plot layout]

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical pairs plots

4. Model fitting:

give mathematical definition of model

Before

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

Stepwise not explained

define all terms

AIC / p-values not = 0.000

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

+ explanations

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity) not 'confirming'

Define

5.5/8

6. Write out final *estimated* model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

be specific not 'validated'
(implicit RDA) 2. state and interpret main findings
 not correct

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

ArNa 8.75/12 → 4.375/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max **10** pages

informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical pair plots

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

Results incomplete
not verify

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

6/8

~~0.75~~ ~~equation~~ 6. Write out final estimated model **mathematically**

~~0.75~~ hat on response variable max **2 sig digits** (after decimal) on coeffs

~~0.75~~ 7. Plots:

~~label size (not too small)~~ informative captions

placement explanations

~~0.5~~ 8. Conclusions

not 'validated'

1. recap analysis

2. state and interpret main findings

not correct

~~0.75~~ 9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

ViNa

8.25/12 → 4.125/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

*too many digits
imprecise*

all variables defined

3. EDA:

1.75/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

(+ pairs plots)

4. Model fitting:

1.25/2 give mathematical definition of model *no 1*

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

explain stepwise

define all terms

*AICs McFadden
Put all results in a table*

5. Model assessment: *not verified!*

CLEARLY state model assumptions: + give **PRIMARY references**

1. binary outcome 2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity 5. no outliers (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

+ Define all performance metrics

5.5/8

Y/1 (OK) ~~log(1-x)~~ 6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

0.75 7. Plots + clarity
label size (not too small)
placement

informative captions

explanations

0.5/1 8. Conclusions

1. recap analysis

be specific not entirely correct
2. state and interpret main findings

0.5/1 9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name El No 8/12 → 4/6

1. Formatting:

- | | |
|--------------------------------|---------------------------|
| all margins 2.5cm | informative title |
| 12 pt size | name on all pages |
| no raw R code or output | all pages numbered |
| max 10 pages | no blurry plots (NOT png) |

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

- | | |
|-------------------------|---------------------------|
| Y1 univariate numerical | bivariate numerical (cor) |
| Y2 univariate graphical | bivariate graphical |

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, BIC + numerical results?

5. Model assessment: *not 'ensure validity'*

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity) *not 'prove'*

+ Define all performance metrics

5.25/6

6. Write out final *estimated* model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

9. Overall presentation (clarity) of explanations, appropriate citations / references :

+ superficial in parts
not correct

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name

Sa No. 8.25/12 → 4.125/6
no cover page / EPFL logo

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

why just 2?

AIC - imprecise / pseudo R² / LRT

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.5/8

Y 6. Write out final *estimated* model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coeffs

(in terms of logit
but OK)

0.75/7. Plots:

label size (not too small)
placement

informative captions
explanations

0.5/8. Conclusions

1. recap analysis

be specific not 'confirm'
2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

somewhat superficial parts

0.5/10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.75/4

logistic: Name _____

Sy No 8.25/12 → 4.125/8

1. Formatting:

0.75/ all margins 2.5cm

12 pt size

no raw R code or output

max **10** pages

informative title

name on all pages

all pages numbered

no blurry plots (**NOT** png)

0.75/ 2. Introduction/Background:

brief background and statement of scientific question

all variables defined

1.75/ 2. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

pairs plots

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected *explain steps used*

define all terms

AIC
Results table

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.75/ 8

(\hat{z} not defined)

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

0.75 / 7. Plots:

label size (not too small)
placement

informative captions
explanations

0.125 / 8. Conclusions Vague

1. recap analysis

be specific
2. state and interpret main findings
unclear

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor satisfactory good excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

Please re-write copied sections

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.5/4

logistic: Name _____

IP Pa

9/12 → 4.5/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

pairs plots

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

procedure? don't eliminate variables based on EDA

define all terms

give p-values, not < 0.001; incorrect odds interp

5. Model assessment:

use paragraphing

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome 2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity 5. no outliers (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.75/8

(OK) ~~Top Tip~~

1/1 6. Write out final **estimated** model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

0.75/ 7. Plots:

label size (not too small)
placement

informative captions
explanations

8. Conclusions

0.75/ 1. recap analysis

2. state and interpret main findings

0.75/ 9. Overall presentation (clarity of explanations, appropriate citations / references): *grammar check*

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

3.25/4

logistic: Name _____

Th Pa

8.5/12 → 4.25/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical + pairs plots

4. Model fitting: (Variable, not 'Facteur')

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

(**CLEARLY**) describe how model selected

define all terms

LRT: complete mathematical description of test

5. Model assessment: not 'confirm'

CLEARLY state model assumptions: + give **PRIMARY references**

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.75/8

(ok) \hat{Y}_1 $\text{logit}(p)$

6. Write out final **estimated** model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

not completely correct

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.75 / 4

logistic: Name Le Pi

8.25/12 → 4.125/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

pairs

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

Don't need R details

define all terms

much is vague + use your own words

GUI

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome 2. independent obs

3. linear relation between logit and linear predictor

4. no multicollinearity 5. no outliers (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

+ explanations
(superficial)

5.5 / 8

Y1 (OK) ~~Total P~~ why change notation ??

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

0.75/

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. be specific state and interpret main findings

Implicit EDA
9. Overall presentation (clarity of explanations, appropriate citations / references):
use your own words

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

2.75 / 4

logistic: Name _____

Da Pr

7.5/12 → 3.75/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

don't need R details

max **10** pages

all pages numbered

no blurry plots (NOT png)

0.5/1 2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

1/2 3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

0.75/1 4. Model fitting:

Descriptions vague

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

Deviances, hyp tests for p-values, performance metrics

5. Model assessment:

1.25/2 **CLEARLY** state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

4.5/8

Y 6. Write out final *estimated* model **mathematically**

hat on response variable max 2 sig digits (after decimal) on coeffs

7. Plots: (ok)

label size (not too small) informative captions

placement explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations/references):
(implicit EDA) Some lacking

poor

satisfactory

good

excellent

0.5/1 10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data
(more here) new paragraph

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

MaPr

8.75 / 12 → 4.375 / 6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max **10** pages

informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

- too many digits

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

age / tumor size / degree
at ordinal
cat vars

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC / LRT / Deviance

5. Model assessment:

CLEARLY state model assumptions: + give **PRIMARY** references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

DEFINE → Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

5.75/8

(OK)

$\log(\frac{Y}{1-p})$

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** (after decimal) on coeffs

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. state and interpret main findings
be specific

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:

logistic: Name _____

Ra-St Pu

6.25/12 → 3.125/6

1. Formatting:

all margins 2.5cm

- too many digits
informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

(no blurry plots (NOT png))

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. binary outcome
2. independent obs
3. linear relation between logit and linear predictor
4. no multicollinearity
5. no outliers
- (6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

+ explanations

DEFINE -> Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

3.75/8

(OK) 

6. Write out final **estimated** model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coeffs

0.25/

label size (not too small)
placement

informative captions
explanations

0.25/

8. Conclusions

-vague

-be specific - not 'simple'

2. state and interpret main findings

-what does 'robust' mean?

0.5/

9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

B – cite PRIMARY refs (not course notes, not wikipedia, etc.)

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)

I – plot size / aspect ratio (make 'pretty')

Other:
