

logistic: Name _____

Je Al

8.25/12 → 4.125/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

no raw R code or output

name on all pages

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:

1.25/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model ~~no~~ ^

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

'gradually' ??

define all terms

AIC

5. Model assessment:

not 'verify' / 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)

+ explanations

5.5/8

Y/ (ok) ~~log(p)~~

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

8. Conclusions

0.75
1. recap analysis

be specific not correct
2. state and interpret main findings

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 _____

Na Al FR

5/12 → 2.5/6

1. Formatting:

all margins 2.5cm

Don't need contents
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 paragraphing
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

AIC, McFadden, LRT, H-L test, Wald

5. Model assessment:

+ Define all performance metrics

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

- not done?
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

3.25/8

not done?

0 / 1

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

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

1 / 1

7. Plots: *(OLE)*

label size (not too small) informative captions

placement explanations

0 . 25 /

8. Conclusions

be specific
2. state and interpret main findings

1 / 1 *(+EDA)*

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

6 . 5 /

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: *Very incomplete*

1. 75 / 4

logistic: Name

MeAt

9.5/12 → 4.75/6

1. Formatting:

all margins 2.5cm

- no cover page
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:

all summary stats
univariate numerical

Don't need Figure 2

univariate graphical

bivariate numerical (cor)

bivariate graphical
square

4. Model fitting:

give mathematical definition of model

no ↑

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

stepwise

define all terms

BIC, AIC

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

+ Define all performance metrics

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

be specific
2. state and interpret main findings

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

0.75/1 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 Ay

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

all pages numbered

max **10** pages

no blurry plots (NOT png)

0.95/1
2. Introduction/Background:

brief background and statement of scientific question

all variables defined

imprecise

1.5/2
3. EDA: Table illegible + plots too small

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

0.75/1
4. Model fitting: seems incomplete

give mathematical definition of model no \wedge ; y not defined

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected not done?

define all terms

performance metrics

5. Model assessment: not validate

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)

5.25/8

0.75/10 6. Write out final *estimated* model **mathematically**

hat on response variable

max 2 sig digits (after decimal) on coeffs

0.5/10 7. Plots:

+ several very small plots

label size (not too small)

informative captions

placement

explanations

0.5/10 8. Conclusions

1. recap analysis

be specific 'robust'?

2. state and interpret main findings

0.5/10 9. Overall presentation (clarity of explanations, appropriate citations / references):

poor

satisfactory

good

excellent

order not logical, please follow order in evaluation criteria

0.5/10 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: - use 1-column format

logistic: Name _____

Pa Au

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)

- too many digits
imprecise

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

all summary stats
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

stepwise / + start with more vars

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

5.5/8

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)

informative captions

placement

explanations

6.5 / 1 8. Conclusions

1. recap analysis

2. state and interpret main findings

0.35 / 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 _____

MoAZ

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:

2/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model *no ^*

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

'relevant'

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):

scattered plots of logit vs. predictors (linearity assumption)

+ clear explanation

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

vif (to identify multicollinearity)

Define

SQUARE Q-Q, but why
assume normality?

6/2

1/1 (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)
placement

informative captions
explanations

8. Conclusions *vague*

1. recap analysis

compl. EDA

2. state and interpret main findings

vague

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:

3/4

logistic: Name

NiBa

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

imprecise

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

all pairs

4. Model fitting:

give mathematical definition of model

First, before results

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

LRT, McFadden

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

+ explanation

5.75/8

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
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 _____

Cabe

7/12 → 3.5/6

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 files~~

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: *incomplete*

univariate numerical

(crosstabs)

univariate graphical

bivariate numerical (cor)

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)

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

vif (to identify multicollinearity)

② Define CV
explain CV

4.5/8

(OK) $\log(\frac{P}{1-P})$

6. Write out final estimated model mathematically

1/1

hat on response variable

max 2 sig digits (after decimal) on coeffs

7. Plots:

0.75
label size (not too small)
+ small plots
placement

informative captions

explanations

0.125
8. Conclusions

be specific not correct
1. recap analysis
+ EDA
2. state and interpret main findings

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:

2.5/4

logistic: Name _____

Ma Be-Oz

8/12 → 4/6

1. Formatting:

all margins 2.5cm

- no abstract / content

12 pt size

informative title

no raw R code or output

name on all pages

max **10** pages

all pages numbered

no blurry plots (NOT png)

0.75/2 2. Introduction/Background:

brief background and statement of scientific question

all variables defined

1.5/2 3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

+ pairs plots

0.25/2 4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC

5. Model assessment:

0.25/2 **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

5.5/8

(ok) ~~Logit~~ $\frac{P}{1-P}$

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

8. Conclusions → ~~vague~~

~~be specific~~

1. recap analysis

2. state and interpret main findings

0.25
9. Overall presentation (clarity of explanations, appropriate citations / references):

0.5
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

logistic: Name _____

El Be-C

7.75/12

3.875/6

1. Formatting:

all margins 2.5cm

Don't need contents

12 pt size

informative title

no raw R code or output

name on all pages
all pages numbered

max **10** pages

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined - dimensionless?

3. EDA: - ALL VARS

- all summary stats

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

Converges more 'reliably'?

define all terms

CV, 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

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 (ok)

8. Conclusions

1. recap analysis be specific
+ 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 _____

PaBi

7.75/12

→ 3.875/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

Throughout

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: write out words

all summary introduce then

univariate numerical

stats put after text

1.5/2 univariate graphical

bivariate numerical (cor)

(bivariate graphical)

what measure? you have
mostly categorical
vars

4. Model fitting:

give mathematical definition of model no ↑

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected explain stepwise

define all terms

AIC, LRT (χ^2 test) ↑
Results incomplete: $\hat{\beta}$, SE($\hat{\beta}$), Z, P

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

(First, + explain, then assess)

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

5.5/8

0.75 / 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:

0.75 / label size (not too small)
placement

informative captions
explanations

0.25 / 8. Conclusions

- structure + run-on sentences

1 recap analysis

2. be specific
state and interpret main findings

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

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 _____

Im. Bo

9/12 → 4.5/6

1. Formatting:

all margins 2.5cm

informative title

0.75/
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:

0.75/
brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

1.5/
univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

not just graphic

4. Model fitting:

1.75/
give mathematical definition of model

2 state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms AIC

5. Model assessment:

1.25/
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

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

Figure 3)

0.25 8. Conclusions

1. recap analysis

be specific
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 _____

Me Bo

8/12 → 4/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max **10** pages

Dont need contents

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

imprecise

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

not just graphic

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

methods, not R commands

define all terms AIC

5. Model assessment:

- no R formulas

- not 'ensure reliability'

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

- not 'verify'

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 'confirming'

Define

5.5/8

(ok) Top tip

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

1. recap analysis

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

poor

satisfactory

good

excellent

be specific 'clinically relevant' ?
2. state and interpret main findings
~~not correct~~

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:

logistic: Name Ma Bo-H

8.5/12 → 4.25/6

1. Formatting:

all margins 2.5cm

informative title

0.75/
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/
2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA: (ok)

2/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

1/2 4. Model fitting: why binarize?

give mathematical definition of model

incomplete

state how model fitted (ie, maximum likelihood)

incorrect interp

CLEARLY describe how model selected

define all terms

AIC / deviances

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 metrics not defined

5.75/8

(0.75)

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

hat on response variable

max 2 sig digits (after decimal) on coeffs

7. Plots:

0.75 **label size** (not too small)

informative captions

placement

explanations

8. Conclusions

0.5 1. recap analysis

be specific
2. state and interpret main findings

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

0.5 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 _____

CaBu 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

all variables defined

3. EDA:

1.5/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical + pairs (numerical)

4. Model fitting:

1/2 give mathematical definition of model

- First (explain all
hyps mathematically)

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

F-stat?

define all terms

Results table incomplete

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 performance metrics

5.25/8

put coeffs in equation

0.75 /

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

0.5 / /

8. Conclusions

1. recap analysis

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

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:

2.5 / 4

logistic: Name _____

DeCa

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 numerical

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:

First, before assessments

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)

(OK) ~~Isnt it 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

0.5
8. Conclusions

1. recap analysis

2. state and interpret main findings

not correct

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: put tables 4+5 together into 1 table

logistic: Name _____

Ga Ga

7.25/12 → 3.625/6

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

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor) *not just graphic*

univariate graphical

bivariate graphical

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

LRT

stepwise

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

(why 2 times?)

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 *not done?*

1. recap analysis

2. state and interpret main findings

9. Overall presentation (clarity of explanations, appropriate citations / references): *no R output*

spell 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:

2.25/4

logistic: Name

LyCo

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

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:

2/2 univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

somewhat incomplete
give mathematical definition of model

why keep both log HOMA + log Ins? VIFs?

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

- explain

define all terms

accuracy / recall / precision / F1 / AUC / VIF

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):

clearly explain scatterplots of logit vs predictors (linearity assumption) what test do you use to compare models?

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

vif (to identify multicollinearity)

- Define

+ leverage defn

6.25/8

0.75 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

0.5 8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

6.5 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 _____

GaCo-Ls 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

4. Model fitting:

give mathematical definition of model

no R formulas

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

Wald, Deviances

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)

5.75/8 *(* only include interaction if you also include the associated main effects)*

(but wrong equation / already penalized)

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 _____

AxGr

7.5/12 → 3.75/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 10 pages

- Don't need abstract
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

imprecise (+ 'robust'?)

all variables defined

1.5/2 3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

0.75/2 4. Model fitting:

give mathematical definition of model

BEFORE fitting

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, BIC + all performance metrics + Deviances

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
— SQUARE ROC plot

(OK) Write in terms of logit

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

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:
