

logistic: Name

AnLg

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

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

define all terms

AIC, LRT

methods, not R fns

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)

Define (to identify multicollinearity)

- Define all performance metrics

5.75/8

4/1 (ok) log(P)
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.5/1
8. Conclusions

1. recap analysis

use paragraphing
be specific
2. state and interpret main findings

6.75/1
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

Rola

7.75/12 → 3.875/6

1. Formatting:

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informative title

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bivariate numerical (cor)

bivariate graphical + pairs plots

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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)

Define

0.75/1 (ok) $\log_{1/4}(\frac{P}{1-P}) + \beta's$
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.25/1
8. Conclusions

1. recap analysis

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

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

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

Other:

2.25/4

⊛ Don't need to re-do

logistic: Name

Yo La

10/12 →

5/6

6/6

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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)

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

vif (to identify multicollinearity)

+ Define all performance metrics

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

hat on *response* variable

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

7. Plots:

1/1 (label size (not too small))

informative captions

placement

explanations

0.25/1 8. Conclusions *vague*

variables + effects?

1. recap analysis
+ EDA

2. state and interpret main findings

0.75/1 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

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

Other:

logistic: Name

Fr Lar

9.25/12 → 4.625/6

1. Formatting:

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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

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

6/8

6.4

logit?

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

hat on *response* variable

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

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:

3.25/4

logistic: Name

Jili

9/12

4.5/6

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2. Introduction/Background:

brief background and statement of scientific question

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3. EDA:

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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)

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

vif (to identify multicollinearity)

- SQUARE ROC curve
- Define performance metrics

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

0.75/ **hat** on *response* variable

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

0.75/ 7. Plots:

0.75/ label size (not too small)

informative captions

placement

explanations

0.5/ 8. Conclusions

1. recap analysis

2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

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Other:

logistic: Name RaLi 8.5/12 → 4.75/6

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4. no multicollinearity

5. no outliers

(6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

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vif (to identify multicollinearity)

+ Define

1 / 1 (ok) : $\log \frac{1}{1-p}$
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

0.5 / 1
7. Plots:

label size (not too small)

placement

(*labels*)
informative ~~captions~~

explanations

0.5 / 1
8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

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

poor

satisfactory

good

excellent
many run-on sentences

10. Other comments:

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

Other:

2.5 / 4

⊛ Don't need to re-do

logistic: Name

An Ma

10.75/12 → 5.375/8
→ 6/6

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define all terms

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

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2. independent obs

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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
1/1

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

hat on response variable

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

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis
+ EDA

2. state and interpret main findings
be specific
be clear

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

poor

satisfactory

good

excellent

10. Other comments:

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

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G – (mathematical) model misspecified / unclear

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

Other:

logistic: Name

Al Made Fr

6.75/12

3.375/6

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CLEARLY describe how model selected

define all terms

5. Model assessment:

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

1. binary outcome

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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

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

hat on *response* variable

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

1/1 7. Plots:

label size (not too small)

informative captions

(placement)

explanations

0.25/1 8. Conclusions

1. recap analysis

2. state and interpret main findings *not correct*

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)

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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

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

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)

Define

0.75/1
(not clear)
6. Write out final *estimated* model **mathematically**

hat on response variable

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

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.5/1
8. Conclusions

1. recap analysis

be specific incorrect
2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

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C – interpretation (cannot conclude causation, only association)

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

Other:

2.5/4

logistic: Name

ArMo

8.75/12 → 4.375/6

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all variables defined

3. EDA:

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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)

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

vif (to identify multicollinearity)

Don't need R details

too many digits

imprecise

Don't need Figures 5/6 plus they look rotated

no Figure 7

First, before fitting

+ explanations

Define

1/1 (ok) $\log \frac{P}{1-P}$
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

0.75 / 1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.5 / 1
8. Conclusions

1. recap analysis
(implicit EDA)

2. state and interpret main findings
be specific — what does 'stability' mean?
vague

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

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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

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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)

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

DEFINE → vif (to identify multicollinearity)

1/1 (ok) ~~lost P~~
6. Write out final *estimated* model **mathematically**

hat on response variable

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

0.75/1
7. Plots: *Blank space*

label size (not too small)

informative captions

(placement)

explanations

0.25/1
8. Conclusions *vague*

1. recap analysis

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

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

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

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

Other:

2.5/4

logistic: Name

SaMo

9.75/12 → 4.875/6

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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 criterion 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)

7.25/8

1/1 (y not defined)
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.25/1
8. Conclusions *vague*

1. recap analysis

be specific
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 *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

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)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

imprecise
tumor size + age also ordinal

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

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)

L + Define

6.5/8

1/1 (OK) $\log(\frac{P}{T_0})$
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

1/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

0.5 / 1
1. recap analysis
(+ EPA)

be specific
2. state and interpret main findings

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

poor

satisfactory

good

excellent

many vague statements

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:

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)

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

vif (to identify multicollinearity)

Define

not 'confirming'

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

hat on *response* variable

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

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:

2.75/4

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

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)

0.75 / 1
equation
6. Write out final estimated model **mathematically**

0.75 / 1
hat on response variable

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

0.75 / 1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.5 / 1
8. Conclusions

1. recap analysis

2. state and interpret main findings

0.75 / 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:

2.75 / 4

logistic: Name

ViNa

8.25/12

4.125/6

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

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

explain stepwise

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)

Define

+ Define all performance metrics

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

hat on *response* variable

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

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:

2.75/4

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

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

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

+ explanations

5.25/6

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

hat on *response* variable

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

7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

1. recap analysis

2. *be specific* 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:

2.75/4

logistic: Name _____

Sa No 8.25/12 → 4.125/6

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

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)

Define

5.5/8

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

in terms of logit but OK

hat on response variable

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

0.75/ 7. Plots:

label size (not too small)

informative captions

placement

explanations

2.5/ 8. Conclusions

1. recap analysis

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

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

poor

satisfactory

good

excellent

somewhat superficial in parts

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 _____

SyNo 8.25/12 → 4.125/8

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

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)

0.75/1

0.75/1

1.75/2

1.25/2

1.25/2

5.75/8

imprecise

pairs plots

explain stepwise

AIC
Results table

+ explanations

Define

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

hat on *response* variable

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

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:

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

5. Model assessment:

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

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

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

1/1 (OK) $\log p$
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

0.75 / 1
7. Plots:

label size (not too small)

informative captions

placement

explanations

8. Conclusions

0.75 / 1
1. recap analysis

2. state and interpret main findings

0.75 / 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:

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:

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)

Define vif (to identify multicollinearity)

5.75/8

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

hat on *response* variable

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

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:

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

define all terms

Don't need R details
much is vague + use your own words
GIVE

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

1/1 (ok) *logit p* why change notation??
6. Write out final *estimated* model **mathematically**

hat on *response* variable

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

0.75/1
7. Plots:

label size (not too small)

informative captions

placement

explanations

0.5/1
8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

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

clarity
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

all pages numbered

don't need R details
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)

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

vif (to identify multicollinearity)

Define

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

1/1 hat on *response* variable

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

0.5/1 7. Plots: (ok)

1/1 label size (not too small)

informative captions

placement

explanations

0.5/1 8. Conclusions

1. recap analysis

2. *be specific* state and interpret main findings

0.5/1 9. Overall presentation (clarity of explanations, appropriate citations / references): *(implicit EDA)* *some lacking*

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: *(more here)* 1. Give context; *new paragraph* 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

MaPr

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)

- too many digits

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

age / tumor size / degree

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

all ordinal
cat vars

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)

(ok if don't do for
categorical
predictors)

Define

5.75/8

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

hat on *response* variable

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

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

Ra-St Pu

6.25/12 → 3.125/6

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:

remove refs from intro

brief background and statement of scientific question

all variables defined

unclear + imprecise

3. EDA:

incomplete

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

Don't need numerical details

CLEARLY describe how model selected

define all terms

5. Model assessment:

+ define Training / Test and all performance metrics

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

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

hat on *response* variable

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

0.75/1
7. Plots:

remove excessive blank space

label size (not too small)

informative captions

placement

explanations

0.25/1
8. Conclusions

- vague

1. recap analysis

- be specific - not 'simple'
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:

2.5/4