

logistic: Name

Ia Ra

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

re-arrange plots and/or move to an appendix
imprecise

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

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)

+ explanation

6/8

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

Figure 1:

explanations

0.5/1
8. Conclusions

1. recap analysis

+EDA

2. state and interpret main findings

not correct

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

poor

satisfactory

good

excellent

careful interpretations

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:

[You could say more about how model relates, but not strictly necessary]

2.75/4

logistic: Name

Je Ra

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:

univariate numerical

bivariate numerical (cor)

not Pearson + numeric
not just graphic

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model (in terms of logit)

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

explain stepwise

define all terms

AIC / test set (+ selection)

5. Model assessment:

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

not 'ensure validity'
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)

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:

* Don't need to re-do

logistic: Name

FeRo

10.5/12

→ 5.25/6

→ 6/6

1. Formatting:

all margins 2.5cm

(informative title)

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 10 pages

no blurry plots (NOT png)

2. Introduction/Background:

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

performance metrics

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**

0.75/1 hat on *response* variable

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

0.75/1 7. Plots: + some small plots

label size (not too small)

informative captions

placement

explanations

0.75/1 8. Conclusions

1. recap analysis

be specific
2. state and interpret main findings

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

1/1 () 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:

3.5/4

logistic: Name

AnSa

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)

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)

(square QQ)

5.25/8

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

hat on *response* variable

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

1 / 1
7. Plots:

(some plots too big)

label size (not too small)

informative captions

placement

explanations

0.25 / 1
8. Conclusions

1. recap analysis

+ EDA

2. state and interpret main findings

be specific 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)

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

JaSa 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

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 + Define all performance measures

1/1 (OK) $\log \frac{P}{T_p}$

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

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

0.75

8. Conclusions

1. recap analysis

2. state and interpret main findings

not entirely correct

(implicit EDA)

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:

3.25 / 4

logistic: Name _____

FeSa-Sc

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)

- too many digits

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

square pairs plots

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

describe entire procedure

define all terms

AIC, LRT + all 'pseudo' measures
+ incorrect interpretation(s)

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)

(+ explanations)

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

vif (to identify multicollinearity)

define

5.5/8

0.5/1 equation

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

8. Conclusions

0.5/1 1. recap analysis

be specific not correct
2. state and interpret main findings

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

0.5/1 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:

2.5/4

logistic: Name

He Se

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

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

This procedure does not seem particularly reproducible

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)

+ explanations

Define

0.75 / 1
log 1/p
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:

0.5 / 1
label size (not too small)

informative captions

placement

explanations

0.5 / 1
8. Conclusions

1. recap analysis

be specific, clearly
2. state and interpret main findings

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

0.5 / 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:

2.5 / 4

logistic: Name

LeSe 5.75/12 → 2.875/6

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)

Don't need contents

- too many digits
imprecise

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical - all pairs

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

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)

clear
+ explanations

Define

0.25/1

0.75/1

0.75/2

0.75/2

0.75/2

3.25/8

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:

label size (not too small)

informative captions

placement

explanations

0.25/1
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
+ R output

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

* Don't need to re-do

logistic: Name

Ja So

11/12 →

~~5.5/6~~

6/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max 10 pages

no blurry plots (NOT png)

2. Introduction/Background:

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)

(use more paragraphing)

Define grif

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

0.5/1 8. Conclusions

1. recap analysis
(+EDA)

2. state and interpret main findings
not correct

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

1/1 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:

3.5/4

logistic: Name

La So

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)

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)

0.25/1

0.75/1

1.5/2

1/2

1.25/2

4.75/8

imprecise

results not in logical order

pairs plots

not 'significantly' + incorrect interpretation of coef. Let, Deviances

+ explanations

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

7. Plots:

1/1 label size (not too small)

(informative captions)

placement

explanations

0.5/ 8. Conclusions

1. recap analysis
(implicit)

2. state and interpret main findings
not 'confirmed' 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:

- Table of missing values unnecessary

logistic: Name

MaSt

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

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

6.25/8

0.75/1

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

Define
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

Be specific
2. state and interpret main findings

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

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

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

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

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

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

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

Other:

*Write more in words/paragraphs,
not bullet points*

2.25/4

logistic: Name

ThSt

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

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

6/8

1/1 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

0.75/1 8. Conclusions

1. recap analysis

2. be specific state and interpret main findings
fa

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:

3.5/4

logistic: Name

SaTa

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

not correct + 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

not correct / define in terms of logit

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions: + give PRIMARY references

1. binary outcome

2. independent obs

3. linear relation between logit and linear predictor

4. no multicollinearity

5. no outliers

(6. large sample size)

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

+ explanations

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

vif (to identify multicollinearity)

Define

5.25/8

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

ArTe

6/12 → 3/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT** png)

- too many digits
imprecise

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

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/ $(\hat{p})$
6. Write out final *estimated* model **mathematically**

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

0.25/
8. Conclusions

1. recap analysis
+ EDA

be specific
2. state and interpret main findings

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

poor

satisfactory

good

excellent

clearly
somewhat incomplete + superficial

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

lots

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)

- too many digits

2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

univariate numerical

all not just graphics
bivariate numerical (cor)

univariate graphical

bivariate graphical + all pairs

4. Model fitting:

give mathematical definition of model

define in terms of logit

state how model fitted (ie, maximum likelihood)

- Don't need R details

CLEARLY describe how model selected

stepwise

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

incomplete
+ explanation
Resids vs leverage
plot too big

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)

placement

informative captions

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:

2.25/4

logistic: Name

XaTu

7/12 → 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

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 (OK) together (which are baseline groups)
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

0.75/1
8. Conclusions

1. recap analysis
(implicit EDA)

2. state and interpret main findings ^{not correct}

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:

logistic: Name

QVe

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

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

Don't need R details

imprecise

Don't need hyp tests

Don't need Figure 3B

square QQ

(not log-linear relationship with log odds)

why these models

AIC

+ explanations

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

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

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

ZoVo

6.25/12 $\Rightarrow$ 3.125/6

1. Formatting:

use your own words

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

imprecise

all variables defined

3. EDA:

explanation - use your own words

univariate numerical

bivariate numerical (cor)

square cor mat
+ too small to read

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

First, before estimation

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC, Deviances, + other methods
(mathematically)

5. Model assessment:

state model assumptions:

not 'ensure', what do you mean by 'accurate'?

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 $\rightarrow$ Cook's distance / standardized residuals (outliers)

vif (to identify multicollinearity)

Define

+ Define all performance metrics

4/8

(OK) Logit (P)

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: *please re-write all copied/plagiarized sections
using your own words

2.25/4

logistic: Name

BeYa

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)

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)

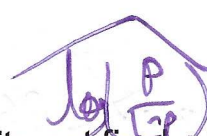
carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

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

vif (to identify multicollinearity)

+ Define all performance metrics

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:

label size (not too small)

informative captions

placement

explanations

0.5/1 8. Conclusions *vague*

1. recap analysis

be specific imprecise
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:

2.75/4

logistic: Name _____

ZhYa 8/12 → 4/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

3. EDA:

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)

5.5/8

0.75/

height (P)
weight (P)

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

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

0.5/

8. Conclusions

1. recap analysis

2. state and interpret main findings

be specific not confirmed

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

not completely correct

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

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

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

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

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

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

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

Other:

2.5/4

logistic: Name

Anze

8.75/12

4.375/6

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)

- too many digits
imprecise

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

incomplete

define all terms

5. Model assessment:

not 'ensure'

CLEARLY state model assumptions: + give PRIMARY references

1. binary outcome

2. independent obs

incorrect assessment

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

6/8

0.35 / 1
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

0.75 / 1
8. Conclusions

1. recap analysis

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:

2.75 / 4

logistic: Name

Hazh

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

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

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

hat on response variable

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

0.5/1/1 7. Plots:

Blank space p. 2

label size (not too small)

informative captions

placement

explanations

0.5/1/1 8. Conclusions

vague

1. recap analysis

be specific
2. state and interpret main findings

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

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:

2.5/4

logistic: Name

HuZh

6.25/12

3.125/6

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

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)

* 'variance importance' - do you mean variable importance? + not defined

0.75/1
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

2. be specific state and interpret main findings
+2

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:

2.25/4

logistic: Name _____

Ru Zh

8.5/12 →

4.25/6

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

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 + 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)

placement

informative captions

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

T:Zh

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)

2. Introduction/Background:

brief background and statement of scientific question

unclear + 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

incomplete explanation

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

+ explanations

5/8

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

11
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

0.5
8. Conclusions

1. recap analysis

be specific 'robust'?
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