

logistic: Name

Cl Da 8.25/12 → 1.125/6

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

imprecise

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

give mathematical definition of model

not R formulas

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

be specific

define all terms

LR + AIC, Wald, Deviances
- all tests mathematically

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)

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

be specific not correct
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') *Figure 3*

Other:

logistic: Name _____

Adje 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:

use paragraphing
too many digits
imprecise

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

- square QQ plots
- square pairs plots
- combine figure 2+3+6

4. Model fitting:

give mathematical definition of model

Before fitting description

state how model fitted (ie, maximum likelihood)

- not 'tries to'

CLEARLY describe how model selected

define all terms

AIC + all 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):

+ explanations

scatterplots of logit vs. predictors (linearity assumption)

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

not cook

vif (to identify multicollinearity)

Define

0.75/1

0.75/1

1.75/2

1.25/2

0.5/2

5/8

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')

Figure 4

Other:

2.5/4

Y
0.75/
1
0.25/
1
0.5/
1

extremely vague
use paragraphing
be specific

not entirely correct

⊛ Don't need to re-do

logistic: Name _____

To Do

10/12 → ~~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:

0.25/1

brief background and statement of scientific question

imprecise

all variables defined

3. EDA:

Don't need Mann-Whitney

1.5/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

+ pairs plots

4. Model fitting:

excellent

2/2

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

5. Model assessment:

1.5/2

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

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

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

(+ explanations)

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

vif (to identify multicollinearity)

Define

6.75/8

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:

1/1

1/1

0.5/1

0.75/1

(implicit EPA)

not correct

good

3.25/4

logistic: Name

Id Fa

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:

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

combine figures 2+3

4. Model fitting:

give mathematical definition of model (in terms of logit)

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

+ what is 'backward and forward elimination'?

define all terms

AIC/BIC + all 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)

+ explanations

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

vif (to identify multicollinearity)

Define

1/1

0.5/1

1.5/2

0.75/2

0.75/2

4.5/8

0.5 / 1
one model + put numeric values in equation
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)

informative captions

placement

explanations

0.25 / 1
8. Conclusions

1. recap analysis

2. state and interpret main findings

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

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:

1.75 / 4

logistic: Name _____

St Fe

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

imprecise

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

not just graphic

4. Model fitting:

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

AIC (+ interpretation)
not Done?

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)

1/1

0.75/1

1.5/2

1.5/2

0/2

4.75/8

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 AmGa 9/12 → (45/6)

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output
(Don't need R details)

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 (in terms of logit)

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected (Be specific, GOF P?, Don't need R details)

define all terms Deviances, 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

6/8

0.75/1

0.75/1

2/2

1.25/2

1.25/2

(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

be specific

2. state and interpret main findings

not entirely correct

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

poor satisfactory / good excellent

10. Other comments:

A – no / incomplete / insufficient references

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

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

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

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

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

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

Other: Remove blank plo

logistic: Name ReGa-Av 9/12 → 45/6

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 SQUARE ROC plot

0.75 / 1

0.75 / 1

2/2

1.25 / 2

1.25 / 2

6/8

(only numeric)

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

Vague

variable effects?

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 _____

LaGi

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)

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

0.25/2

1/2

1/2

3.75/8

Throughout

imprecise

incomplete

+ pairs

please display for mufas + somewhat incomplete + hard to follow

not 'verified'

+ explanations

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

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

be specific not correct

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

use your own words

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

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

C – interpretation (cannot conclude causation, only association)

D – use your **OWN WORDS** / no apparently unattributed quotations

please completely re-write copied material

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 _____

Is Go

8.5/12

→ 4.25/6

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 10 pages

(remove excess blank space)
informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

imprecise

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

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

- easier to read if defined in terms of logit
not exactly forward selection

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)

(add lines) + explanations

5.75/2

(OK)

4/1

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

0.5/1

8. Conclusions

1. recap analysis

2. state and interpret main findings

(implicit EDA)

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:

2.75/4

logistic: Name _____

Li Gr 8.5/12 → 4.25/6

1. Formatting:

0.75/1

all margins 2.5cm

12 pt size

no raw R code or output

max 10 pages

+ No cover page + contents
+ informative title

name on all pages

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

0.75/1

brief background and statement of scientific question

all variables defined

imprecise

3. EDA:

1.7/2

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

(align cols)
pairs plots

4. Model fitting:

1.25/2

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

- very unclear

AIC

+ p-values?

5. Model assessment:

1.5/2

CLEARLY state model assumptions: + give PRIMARY references

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

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

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

vif (to identify multicollinearity)

Define

First explain before interpret

5.75/8

(write in terms of legit)

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

(implicit EDA)

be clear

2. state and interpret main findings

not correct

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

poor

satisfactory

good

excellent

10. Other comments:

A – no / incomplete / insufficient references

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

C – interpretation (cannot conclude causation, only association)

D – use your OWN WORDS / no apparently unattributed quotations

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

F – univariate graphical: histograms not boxplots

G – (mathematical) model misspecified / unclear

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

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

Other: Q1: put excessive plots in an appendix

Q2: you can use either 'I' or 'we'

Q3: you can cite an authoritative textbook, for example

McCullagh + Nelder or Dobson

2.75/4

logistic: Name Or Gr-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)
- too many digits

2. Introduction/Background:

brief background and statement of scientific question

imprecise

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 - Before fitting

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

Don't eliminate variables based on EDA

define all terms

Deviances, LRT
'actual contribution' = ??

looks like incorrect interp.

5. Model assessment:

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

not 'verify'

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

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption)

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

vif (to identify multicollinearity)

Define

5.5/8

1/1 (OK) ^{log I}
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 *(incomplete)*

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

La-Ro Ha

8/12 → 4/6

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 AB - Ind Report)

2. Introduction/Background:

brief background and statement of scientific question

all variables defined

imprecise

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

out of place

pairs plots for numeric 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, Deviances

Don't choose variables based on EDA

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 square QQ (but why do you expect them to be normal?)

+ explanation

5.5/8

(ok) (Don't need prob)

logit($\frac{p}{1-p}$)

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

Vague

1. recap analysis

be specific + not bullet points

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

Hulte

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

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

(Throughout)

0.75/1

1.5/2

1.5/2

1.25/2

6/8

imprecise

Don't need hyp tests

not just graphics
pairs plots for
numeric vars

Backward
some
incorrect interpretations

+ explanation

1/1 (ok) $\log\left(\frac{p}{1-p}\right)$

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

hat on *response* variable

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

7. Plots:

0.75 / label size (not too small)
placement

informative captions

explanations

8. Conclusions *vague*

0.5 / 1. recap analysis

be specific
2. state and interpret main findings

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

0.5 / poor satisfactory good excellent

10. Other comments:

- A – no / incomplete / insufficient references
 - B – cite PRIMARY refs (not course notes, not wikipedia, etc.)
 - C – interpretation (cannot conclude causation, only association)
 - D – use your OWN WORDS / no apparently unattributed quotations
 - E – Intro: 1. Give context; 2. Clearly state scientific question; 3. Describe data
 - F – univariate graphical: histograms not boxplots
 - G – (mathematical) model misspecified / unclear
 - H – clearly EXPLAIN / INTERPRET PLOTS (don't just state conclusions)
 - I – plot size / aspect ratio (make 'pretty')
- Other:
-
-
-
-
-

2.75 / 4

logistic: Name _____

Mytti

7.25/12 →

3.625/6

1. Formatting:

all margins 2.5cm

(informative title)

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

2. Introduction/Background:

brief background and statement of *imprecise* scientific question

all variables defined

3. EDA:

univariate numerical

(don't need this plot)
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

very complicated 'procedure'

define all terms *LRT, 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)

+ explanations

1/1

0.75/1

1.75/2

1/2

1/2

5.5/8

0.5 / 1
6. Write out final *estimated* model mathematically

hat on response variable

max 2 sig digits (after decimal) on coefs

interaction term + why no main effects?

0.5 / 1
7. Plots:

label size (not too small)

(+ number all figures
informative captions)

placement annex takes explanations

0.25 / 1
8. Conclusions

1. recap analysis

2. state and interpret main findings

too many pages

be specific

not completely 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:

1.75 / 4

logistic: Name

CaIm

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

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

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

Ceka 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:

run on sentences - clarify
imprecise

brief background and statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate ^{all} 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

in complete - be specific

define all terms

Wald, LRT, AIC
mathematically

5. Model assessment:

assess not 'verify'

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)

+ clear explanations

vif (to identify multicollinearity)

Define

5.5/8

1/1 (OK) Project II

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

hat on *response* variable

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

7. Plots:

0.75/1

label size (not too small)

informative captions

placement

explanations

8. Conclusions

0.5/1

1. recap analysis

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

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

0.5/1

poor

satisfactory

good

excellent

10. Other comments:

A – no (Cook) Technometrics / 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 _____

Mika

8.5/12 → 4.25/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

name on all pages

no raw R code or output

all pages numbered

max **10** pages

no blurry plots (**NOT png**)

- too many digits

2. Introduction/Background:

brief background and statement of scientific question

imprecise

all variables defined

3. EDA: all vars

univariate numerical

bivariate numerical (cor)

Don't need Figure 2

univariate graphical

bivariate graphical

- square

4. Model fitting:

what is the purpose of Table 2.2

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

- Don't eliminate variables using EDA

define all terms

- interpretations not entirely correct

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**

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
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:

- strange pagination

2.5/4

① Don't need to re-do

logistic: Name _____

Yakr

10.5/12 →

~~5.25/6~~ 6/6

1. Formatting:

1/1

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:

0.75/1

brief background and statement of imprecise scientific question

all variables defined

3. EDA:

2/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

2/2

give mathematical definition of model

state how model fitted (ie, maximum likelihood)

CLEARLY describe how model selected

define all terms

Don't need all steps (Table 1)
OR

5. Model assessment:

1.75/2

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

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

carry out assessment (numerical / graphics):

scatterplots of logit vs. predictors (linearity assumption) ✓

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

vif (to identify multicollinearity)

7.5/8

4/1 (OK) ^{long}

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

1. recap analysis
+ EDA

be specific not entirely correct
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:

3/4