Roadmap

- Introductions
- Content Questions
- Administrivia Questions
- KNN Example
- Homework 1
Outline
Content Questions
Content Questions
Content Questions
Outline
• If you’re not enrolled and there’s not physically room in the classroom, please leave

• Offered again next year (perhaps in Spring)
Administrivia Questions
Administrivia Questions

Administrivia Questions
Outline
**KNN Classification**

\[ K = 1 \]

What is the prediction of \( y_1 \)?

Closest points:

Prediction:
KNN Classification

$K = 1$

What is the prediction of $y_2$?

Closest points:

Prediction:
KNN Example

KNN Classification

$K = 1$

What is the prediction of $y_3$?

Closest points:

Prediction:
KNN Example

KNN Classification

\[ K = 1 \]

What is the prediction of \( y_3 \)?

Closest points:

Prediction:
KNN Example

**KNN Classification**

$$K = 2$$

What is the prediction of $$y_1$$?

Closest points:

Prediction:
KNN Example

KNN Classification

\( K = 2 \)

What is the prediction of \( y_2 \)?

Closest points:

Prediction:
KNN Example

KNN Classification

$K = 2$

What is the prediction of $y_3$?

Closest points:

Prediction:
What is the prediction of $y_3$?

Closest points:

Prediction:
KNN Classification

$K = 3$

What is the prediction of $y_1$?

Closest points:

Prediction:
KNN Example

KNN Classification

$K = 3$

What is the prediction of $y_2$?

Closest points:

Prediction:
What is the prediction of $y_3$?

Closest points:

Prediction:
KNN Example

KNN Classification

$K = 3$

What is the prediction of $y_3$?

Closest points:

Prediction:
HW1

- Now posted
- Designed to be easy
- Main goal: comfortable with Python / infrastructure