Course / KNN Discussion

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LECTURE 1A
Roadmap

- Introductions
- Content Questions
- Administrivia Questions
- KNN Example
- Homework 1
Introductions
Content Questions
Content Questions
Content Questions
Content Questions
Administrivia Announcements

- 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
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Administrivia Questions
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 Classification

\( K = 1 \)

What is the prediction of \( y_3 \)?

Closest points:

Prediction:
KNN Classification

What is the prediction of \( y_4 \)?

Closest points:

Prediction:
KNN Classification

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 Classification

Given that $K = 2$, what is the prediction of $y_3$?

Closest points:

Prediction:
What is the prediction of $y_4$?

Closest points:

Prediction:
KNN Classification

$K = 3$

What is the prediction of $y_1$?

Closest points:

Prediction:
**KNN Classification**

\[ K = 3 \]

What is the prediction of \( y_2 \)?

Closest points:

Prediction:
KNN Classification

$K = 3$

What is the prediction of $y_3$?

Closest points:

Prediction:
KNN Classification

$K = 3$

What is the prediction of $y_4$?

Closest points:

Prediction:
HW1

- Posted this week
- Designed to be easy
- Main goal: comfortable with Python / infrastructure