Overfitting and Underfitting

Overfitting and Underfitting

Student A

Student B

Student C

Overfitting and Underfitting

Student A

Student B

Student C

- Distracted
- Does not perform well in class

Overfitting and Underfitting

Student A

- Distracted
- Does not perform well in class

Student B

- Memorizes Concepts
- Best performer in class

Student C

Overfitting and Underfitting

Student A

- Distracted
- Does not perform well in class

Student B

- Memorizes Concepts
- Best performer in class

Student C

- Understands concepts
- Decent performer in class

Surprise Test results:
Understanding based Q's

Overfitting and Underfitting

Student A

Student B

Student C

- Random guesses
- **50%** overall

Overfitting and Underfitting

Student A

- Random guesses
- **50%** overall

Student B

- Caught off guard
- **70%** overall

Student C

Overfitting and Underfitting

Student A

- Random guesses
- **50%** overall

Student B

- Caught off guard
- **70%** overall

Student C

- Solves methodically
- **90%** overall

Overfitting and Underfitting

Student A

- Random guesses
- 50% overall

Student B

- Caught off guard
- **70%** overall

Student C

- Solves methodically
- **90%** overall

Good Fit Model

Overfitting and Underfitting

Student A

- Random guesses
- 50% overall

Student B

- Caught off guard
- **70%** overall

Overfitting Model

Student C

- Solves methodically
- **90%** overall

Good Fit Model

Overfitting and Underfitting

Student A

- Random guesses
- 50% overall

Underfitting Model

Student B

- Caught off guard
- **70%** overall

Overfitting Model

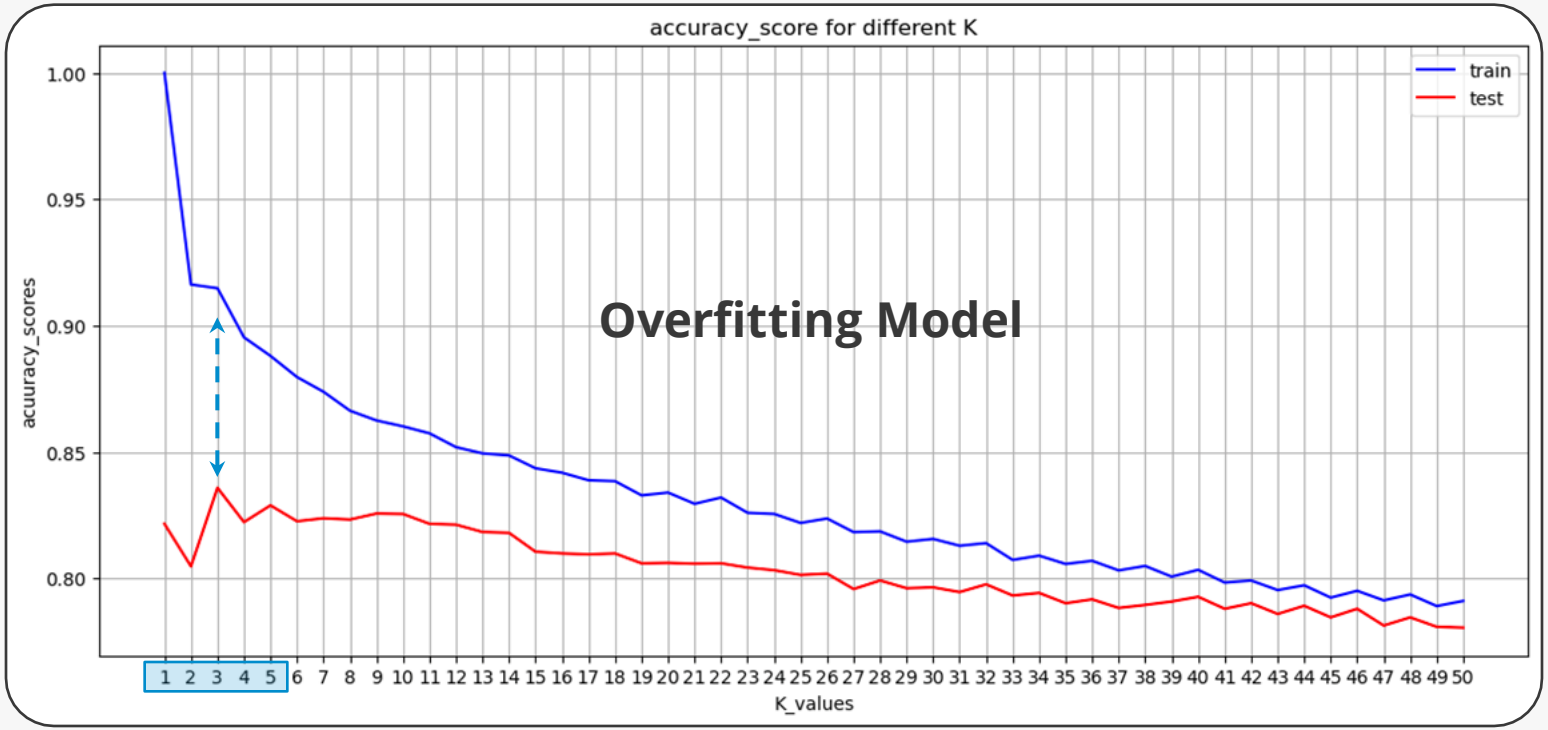
Student C

- Solves methodically
- **90%** overall

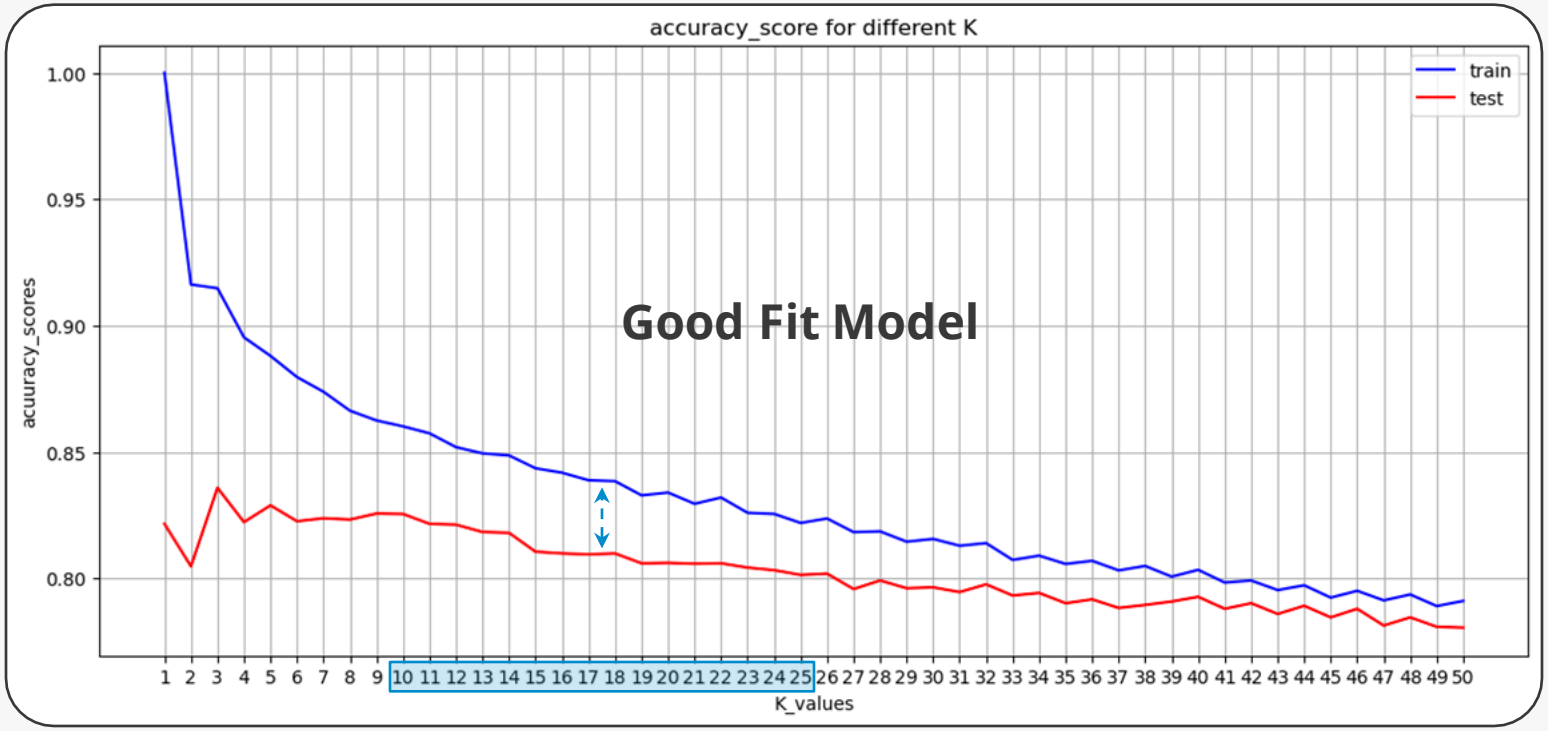
Good Fit Model

Comparing these results with our KNN model

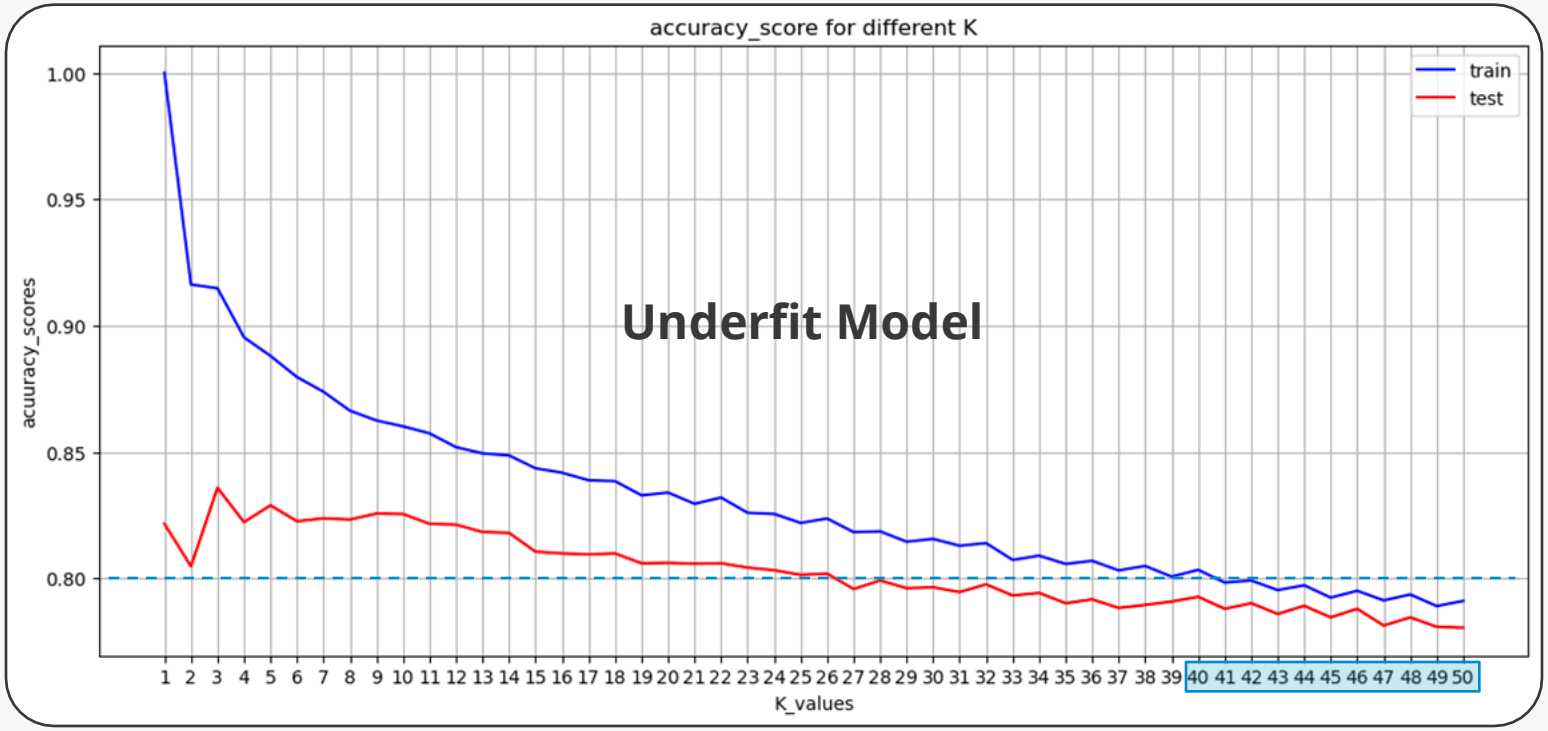
Types of Models



Types of Models

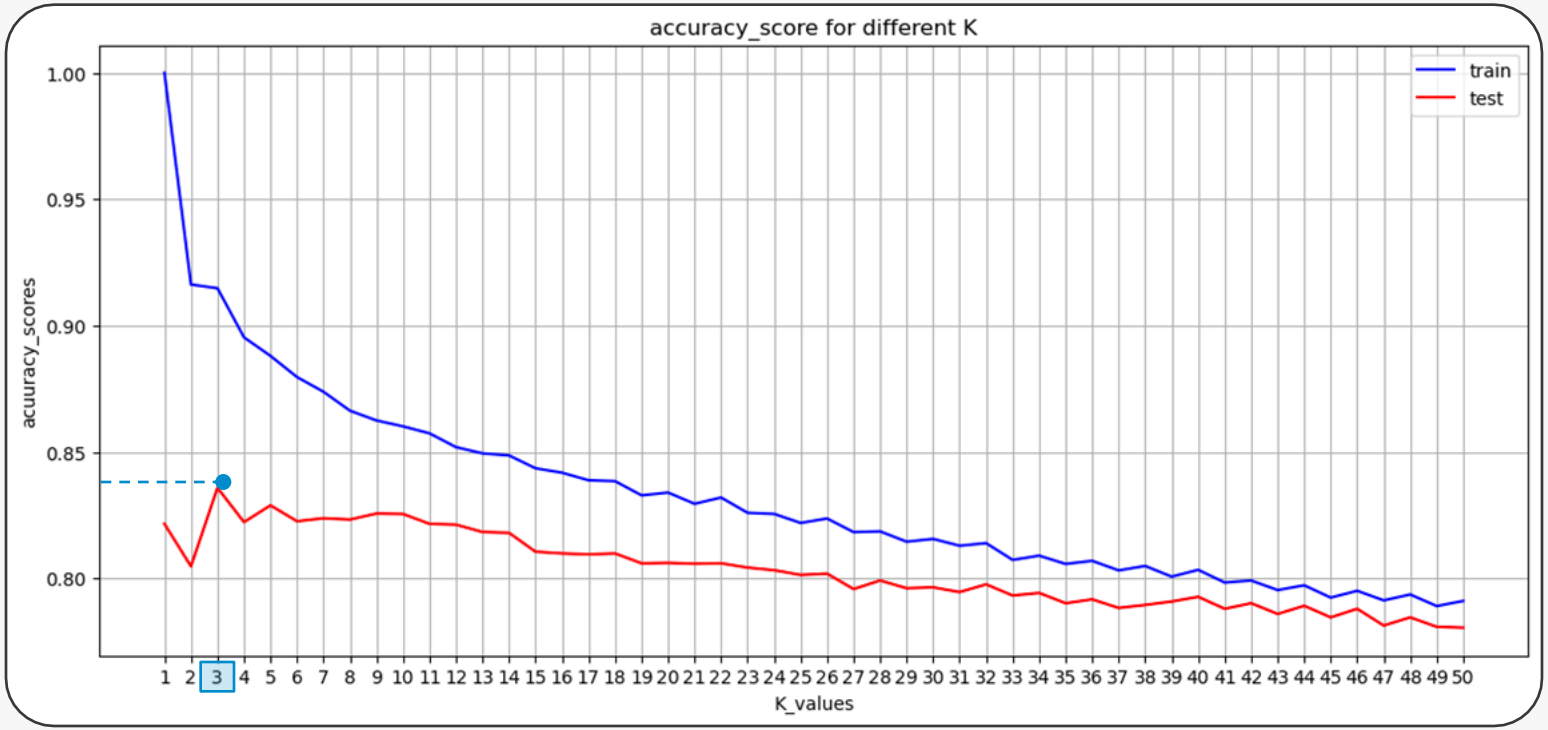


Types of Models



Which model should we choose for Synergix?

Best-Performing Model



Consistent Model