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Module 6: Lab 6

Progress 1 - Screen shot of pipeline model results

A screenshot of a computer program

Description automatically generated

Analysis 2 - Compare linear with pipeline performance

The pipeline outperforms the Linear Regression model on the training set. It has a lower RMSE (3.70 vs. 4.90) and a higher R2 score (93.69% vs. 88.93%), indicating a better fit to the training data. Similarly, the pipeline performs better on the testing set as well.

Progress 3 - Screen shot of scatter plot with pipeline model curve overlay

A screenshot of a computer

Description automatically generated

Progress 4 - Screen shot of set of predicted value for pipeline model

A screenshot of a computer

Description automatically generated

Analysis 5 - Discussion on deciding input limits for pipeline model

Check the range of heights in the training data. Ensure that the input heights you use for predictions fall within this range. The data represents physical measurements so consider the realistic range for the input variable. For example, heights are not going to be negative.

Progress 6 - Screen shot directory listing with saved model

A screenshot of a computer

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Progress 7 - Screen shot predicted values for restored pipeline model. Verify match.

A screenshot of a computer program

Description automatically generated

Progress 8 - Screen shot of flask installation

A screenshot of a computer program

Description automatically generated

Progress 9 - Screen shot of server start

A screenshot of a computer program

Description automatically generated

Progress 10 - List of server responses from browser or CURL

Open a browser and enter each of the following urls:

<http://127.0.0.1:5000/weight>

A close-up of a sign

Description automatically generated

<http://127.0.0.1:5000/weight?height=33.3>

A black background with white numbers

Description automatically generated

<http://127.0.0.1:5000/weight?height=0>

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Description automatically generated

<http://127.0.0.1:5000/weight?height=50>

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Description automatically generated

<http://127.0.0.1:5000/weight?height=100>

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<http://127.0.0.1:5000/weight?height=150>

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Description automatically generated

<http://127.0.0.1:5000/weight?height=175>

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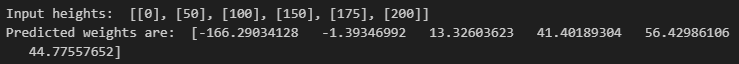
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<http://127.0.0.1:5000/weight?height=200>

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Analysis 11 - Verify match. Explain discrepancies.



All values are exact matches. There are no discrepancies.