



AIAP[®] Learning Resources

1	<p>Requires improvement in software engineering, including practicing code reusability, using industry conventions (example PEP8) and ensuring self explanatory code.</p> <p>Resources:</p> <ul style="list-style-type: none"> • Python Functions: Making Your Code Reusable • Classes vs Functions • Writing Comments in Python (Guide) • PEP 8 — Style Guide for Python Code • Software Engineering at Google • 97 Things Every Programmer Should Know <p>DataCamp Courses:</p> <ul style="list-style-type: none"> • Writing Efficient Python Code • Python Data Science Toolbox (Part 1) • Software Engineering for Data Scientists in Python
2	<p>Requires improvement in exploratory data analysis (EDA), including using appropriate data visualizations, employing statistical techniques to analyze data and the ability to derive meaningful insights.</p> <p>Resources:</p> <ul style="list-style-type: none"> • EDA • Data visualizations • Finding insights in Data <p>DataCamp Courses:</p> <ul style="list-style-type: none"> • Introduction to Data Visualization with Seaborn • Statistical Thinking in Python (Part 1) • Statistical Thinking in Python (Part 2) • Dimensionality Reduction in Python
3	<p>Requires improvement in data preprocessing, including data cleaning, data encoding and feature engineering.</p> <p>Resources:</p> <ul style="list-style-type: none"> • Data cleaning • Data encoding • Data encoding 2 • Label encoding or ordinal encoding • Feature engineering • Imbalanced classes <p>DataCamp Courses:</p> <ul style="list-style-type: none"> • Cleaning Data in Python • Data Manipulation with Pandas • Preprocessing for Machine Learning in Python • Feature Engineering for Machine Learning in Python

4	Did not use the correct category of models for the presented problem statement.
Resources: <ul style="list-style-type: none"> • Regression vs Classification models • Evaluating Classification models • Evaluating Regression models DataCamp Courses: <ul style="list-style-type: none"> • Supervised Learning with scikit-learn 	
5	Did not meet the Technical Assessment requirements - No Python scripts found in the Machine Learning Pipeline.
Resources: <ul style="list-style-type: none"> • Creating modules and packages • Working with modules DataCamp Courses: <ul style="list-style-type: none"> • Writing Efficient Python Code • Python Data Science Toolbox (Part 1) • Software Engineering for Data Scientists in Python 	
6	Did not meet the Technical Assessment requirements - Incorrect or Incomplete submission.
Resources: <ul style="list-style-type: none"> • Markdown syntax • Guide on writing a README.md file • Should we use pip freeze to output requirement.txt? • Should we use pip freeze to output requirement.txt? (2) • Writing Bash scripts 	