

FinTech Unit 13 AWS Homework Grading Rubric

Both Options

Criteria	Ratings			
Coding Conventions/Formatting <ul style="list-style-type: none">• Appropriate header, name, short description at top of the notebook• Imports are at the top of the file, just after any headers or subheads.• Files read in from relative file path• Functions and variable names are descriptive, lowercase, with words separated by underscores• Clean code, no repetition, maintainable and highly reusable code.• Appropriate code wrapping and cell sizes• Appropriate subheads as needed	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging
Deployment/Submission <ul style="list-style-type: none">• Files submitted in personal repo• Appropriate directory structure with correct files needed to run scripts• Appropriate commit messages• Appropriate README	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging
Documentation/Comments <ul style="list-style-type: none">• Code is well commented with concise, relevant comments	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging

Option 1

Criteria	Ratings			
Initial Robo Advisor Configuration <ul style="list-style-type: none"> • RoboAdvisor created with proper parameter. • RecommendPortfolio created and configured with proper name utterances. • RiskLevel custom slots created with proper card slots. • RoboAdvisor tested after build with error handling configuration. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenarios • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed fewer than 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 1 or none out of the 4 requirements • No submission • Code runs with error
Enhance RoboAdvisor with Amazon Lambda Function <ul style="list-style-type: none"> • User Input Validated. • Investment Portfolio Recommendation given on selected risks. • Lambda Function tested with sample test cases. • Lambda Function integrated to the RoboAdvisor. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenarios • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed 2 out of 4 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 1 or none out of the 4 requirements • No submission • Code runs with error

Option 2

Criteria	Ratings			
Data Preprocessed <ul style="list-style-type: none"> Data loaded using Pandas DataFrame into crypto_df. Data Preprocessed with the assigned preprocessing tasks. Data Dimension Reduced <ul style="list-style-type: none"> PCA algorithm from sklearn used to reduce dimensions. pcs_df DataFrame created and crypto_df.index used as the index for pcs_df DataFrame. 	35 Points Mastery <ul style="list-style-type: none"> Completed 4 out of 4 requirements Code runs without error and produces the assigned results Code accounts for all possible scenarios Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> Completed 3 out of 4 of requirements Code runs without error Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> Completed 2 out of 4 requirements Code runs without error Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> Completed 1 or none out of the 4 requirements No submission Code runs with error
Cryptocurrency Clustered <ul style="list-style-type: none"> K-Means used to cluster the cryptocurrencies using PCA data. Elbow Curve used to find the best value for k, using the pcs_df DataFrame. Kmeans algorithm used to predict the k cluster for cryptocurrency data. New DataFrame created named clustered_df, includes assigned columns and index. Visualizing Results <ul style="list-style-type: none"> 3D-Scatter plotted created using Plotly using clustered_df DataFrame, parameters used as directed. Data table created using hvplot.table for all current tradable cryptocurrencies, columns used as directed. Scatter plot created using hvplot.scatter, to present clustered data with directed parameters. 	35 Points Mastery <ul style="list-style-type: none"> Completed 7 out of 7 requirements Code runs without error and produces the assigned results Code accounts for all possible scenarios Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> Completed 5 out of 7 of requirements Code runs without error Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> Completed 3 out of 7 requirements Code runs without error Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> Completed less than 3 of the 7 requirements No submission Code runs with error
Optional Challenge <ul style="list-style-type: none"> Jupyter notebook uploaded to Amazon SageMaker and deployed. 	20 Points Mastery	15 Points Approaching Mastery	10 Points Progressing	5 Emerging

