**FinTech Unit 6 Homework: Grading Rubric**

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| **Criteria** | **Ratings** | | | |
| **Rental Analysis** • Number of housing units per year calculated.  • Bar chart visualization of rental analysis results.   **Average Gross Rent in San Francisco Per Year** • Gross Calculated for each year. • Gross rent pet year visualized in line chart. | **20 Points Mastery** • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario  • Code is free of bugs | **19 > 16 Points Approaching Mastery** • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time | **16 > 14 Points Progressing** • Completed 2 out of 4 requirements • Code runs without error  • Code produces results, but not necessarily the correct results | **14 > 0 Emerging** • Completed 1 or none out of the 4 requirements • No submission • Code runs with error |
| **Average Sales Price Per Year** • Gross Calculated for each year. • Gross rent pet year visualized in line chart.   **Average Prices By Neighborhood** • Data grouped by year and neighborhood and average calculated per sqft. • Average sales per sqft per year visualized with a neighborhood dropdown selector. | **20 Points Mastery** • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario  • Code is free of bugs | **19 > 16 Points Approaching Mastery** • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time | **16 > 14 Points Progressing** • Completed 2 out of 4 requirements • Code runs without error  • Code produces results, but not necessarily the correct results | **14 > 0 Emerging** • Completed 1 or none out of the 4 requirements • No submission • Code runs with error |
| **Top 10 Most Expensive Neighborhoods** • calculate the mean sale price for each neighborhood and then sort the values to obtain the top 10 most expensive neighborhoods on average • Result plotted as a bar chart.  **Parallel Coordinates and Parallel Categories Analysis** • Parallel Coordinates Plotted • Parallel Categories Plotted | **15 Points Mastery** • Completed 4 out of 4 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario  • Code is free of bugs | **14 > 11 Points Approaching Mastery** • Completed 3 out of 4 of requirements • Code runs without error • Code produces results as expected 80% of the time | **11 > 9 Points Progressing** • Completed 2 out of 4 requirements • Code runs without error  • Code produces results, but not necessarily the correct results | **9 > 0 Emerging** • Completed 1 or none out of the 4 requirements • No submission • Code runs with error |
| **Neighborhood Map** • Interactive map with average neighborhood prices per sqft.  **Dashboard** • Interactive dashboard encompassing each functional visualization. | **15 Points Mastery** • Completed 2 out of 2 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario  • Code is free of bugs | **14 > 11 Points Approaching Mastery** • Completed 1 out of 2 of requirements • Code runs without error • Code produces results as expected 80% of the time | **11 > 9 Points Progressing** • Completed fewer than 1 out of 2 requirements • Code runs without error  • Code produces results, but not necessarily the correct results | **9 > 0 Emerging** • Completed 0 out of 2 requirements • No submission • Code runs with error |
| **Coding Conventions/Formatting**  • 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**  • 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**  • Code is well commented with concise, relevant comments | **10 Points Mastery** | **9 Points Approaching Mastery** | **8 Points Progressing** | **8 > 0 Emerging** |