Weekly Project Performance Report

Project Title: Housing Price Analysis & Prediction

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Week #: 4

Reporting Period:\*\* [may 29 – July 13]

# 1. Progress Summary

\*\*Current Phase(s):\*\*  
[List active phase(s) from your timeline, e.g., “1. Project Planning & Management”, “2. Data Collection”]

\*\*Key Accomplishments This Week:\*\*

- ✓ Defined project scope and objectives

- ✓ Identified primary data sources: Zillow, BEA, Census

- ✓ Scheduled weekly status check-ins

# 2. Tasks Completed

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Status | Notes |
| 4.4 | Convert SQL tables to pandas | Complete | Finalized goals: predict and visualize housing price trends |
| 4.5 | Perform exploratory data analysis (EDA) | Complete | Looked at available data more formatting may be needed |

# 3. Tasks In Progress

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | % Complete | Estimated Completion |
| 6.2 | Perform linear regression to assess price factors | 50% | 6/5/2025 |
| 6.4 | Conduct time series analysis | 50% | 6/6/2025 |

# 4. Next Week's Plan

**4. Data Cleaning & Preprocessing**

4.1 Handle missing values  
4.2 Remove duplicates  
4.3 Standardize data formats   
4.4 Convert SQL tables to pandas DataFrames  
4.5 Perform exploratory data analysis (EDA)  
4.6 Merge data across sources by ZIP code/state

**5. Feature Engineering**

5.1 Create new variables (e.g., price per square foot)  
5.2 Encode categorical variables  
5.3 Create dummy variables for amenities  
5.4 Normalize/standardize numerical features  
5.5 Generate time-based features for time series analysis

# 6. Deliverables

|  |  |  |
| --- | --- | --- |
| Deliverable | Status | Notes |
| 9.1 Prepare final Python/Jupyter Notebooks | In progress | To be finalized next week |
| 9.2 Prepare and document SQL source code | In progress |  |
| 9.3 Export all visualizations (PNG/interactive) | Not started |  |
| 9.4 Compile and organize results of models | Not started |  |
| 9.5 Submit full project package (code, visuals, report) | Not started |  |