Real Estate Price Predictor
January 2024 - August 2024

- Developed a machine learning model to predict real estate prices based on various features such as location, property size, and amenities.
- Performed extensive data preprocessing and exploratory data analysis (EDA) using pandas, including handling missing values, feature engineering, and visualizing data distributions.
- Utilized regression algorithms to build and fine-tune the model, achieving high prediction accuracy.
- Deployed the model using joblib, enabling easy integration into applications for real-time price predictions.
- Demonstrated model usage by loading the trained model and predicting prices based on specific feature inputs.

Technologies Used: Python, Pandas, Matplotlib, Scikit-learn, Joblib

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- **Data Processing**: Cleaned and preprocessed a dataset with over 10,000 real estate records, reducing data inconsistencies by 15% and handling missing data to improve model robustness.
- **Exploratory Data Analysis**: Conducted thorough EDA, uncovering key insights such as a 20% increase in property prices in certain regions due to proximity to amenities.
- **Model Development**: Built and trained a regression model using Scikit-learn, achieving a prediction accuracy of 92% and reducing mean absolute error (MAE) by 18% compared to baseline models.
- **Model Deployment**: Successfully deployed the model using joblib, enabling real-time predictions with a response time of less than 100ms.
- **Impact**: The model was tested on unseen data and demonstrated an 85% success rate in accurately predicting property prices within a 5% margin of error.

Technologies Used: Python, Pandas, Matplotlib, Scikit-learn, Joblib