



FutureValuEstate

AI-Enhanced Real Estate Investment Analysis for Japan's Prefectures until 2030



Introduction

- Japan is a popular destination for foreign investment, particularly in real estate.
- Determining the value of land in Japan can be challenging, especially for those unfamiliar with the market.
- The AI-powered web application we are creating will revolutionize real estate investment by providing investors with comprehensive and forward-looking valuation analysis.
- The goal is to empower investors to make informed decisions in the dynamic real estate market.
- Our solution addresses the complexity of the real estate market and the lack of access to accurate and future-oriented valuation models.
- By deploying a machine learning model that predicts land valuation up to 2030, we assist investors in making strategic investment decisions.
- FutureValuEstate, our project, incorporates cutting-edge features to enhance the user experience and investment strategy.

Our Goals and Vision

- Provide real-time trade prices and valuation estimates for real estate investments in Japan at the prefecture level.
- Address the lack of models that offer future price estimation, enabling effective investment planning.

Solution Overview:

Our ingenious solution harnesses machine learning to estimate property valuations using parameters such as-

- 1) prefecture
- 2) city planning category
- 3) area
- 4) frontage
- 5) year
- 6) GDP
- 7) population
- 8) minimum time to station
- 9) Air Quality Index(AQI)
- 10) Crime Rate

Additionally, we have integrated a Convolutional Neural Network (CNN) to estimate the current expected price of a house based on features such as the number of bedrooms and optional photos.

Furthermore, our web application allows users to list the top 5 properties and compare their statistics based on budget and the desired purchase year.

Key Features & Benefits :

Feasibility & Scalability:

Our solution's feasibility hinges on data availability, and as data accessibility improves, the model's accuracy and effectiveness will further elevate, offering invaluable insights to investors.

Also provides us with the opportunity to survey the data and scale it to Indian states

Future Price Estimation: Our ML model predicts land valuations until 2030, enabling investors to make long-term investment plans.

Quality Investment Identification: By considering multiple parameters, our solution helps investors identify areas with the highest potential for quality investments.

Current Property Valuation: The CNN-based feature estimates the current expected price of a house, providing users with real-time insights.

Property Comparison: Users can compare the statistics of the top 5 properties based on their budget and desired purchase year.

User-Friendly Interface: Our web application offers a seamless and intuitive experience, making it easy for investors to explore and analyze investment opportunities.

Innovation

- Our innovation merges optimized models, each specialized in distinct attributes, into a unified toolkit. This toolkit caters to diverse stakeholders in real estate.
- Acts as a foundational platform to deliver profound insights that enhance real estate investments.
- Facilitates crucial decision-making for real estate investments
- Utilizes data from publicly accessible sources.
- Not currently offered in the market



INVESTORS

Get Investment Overview in a click



GENERAL POPULATION

Query what you see !



RESEARCH PURPOSES

Get Detailed Analytics

Potential Enhancements:

- Sentiment Analysis: Integrate sentiment analysis for predicting market trends based on social media and news data.
- Considering the Monetary policies of the Govt that are not included to scale GDP to buff the trade price.
- Enhanced Data Integration: Include data from transportation infrastructure, local amenities, and environmental factors such as natural calamities to further enhance predictions

Conclusion

- Our project offers a groundbreaking solution for real estate investment analysis in Japan, combining machine learning, time series forecasting, and image analysis.
- By providing accurate land valuations until 2030 and estimating the current expected price of houses, our solution empowers investors to make informed decisions.
- We are open to feedback and suggestions for further improvements and innovations to enhance our solution's impact and usability.

Our Team

Team Lead - Shubh Rai

Members -

Harsh Rawat

Preetraj Gupta

Sayan Karmakar

Shiv Shankar Singh



FutureValuEstate

Thanks

As we reach the end of our presentation, we realize that this ending is just the beginning of endless possibilities. Thank you for taking this step with us into the realm of innovation.

