

[Chan Zuckerberg Initiative]



The Chan Zuckerberg Initiative is a philanthropic organization founded by fellow alumni Priscilla Chan and Mark Zuckerberg in 2015, focusing in the areas of science, education, and justice and opportunity. Funded by Facebook shares, the charitable foundation seeks to build a more inclusive future for all.

Project Description

The main goal of this project is to strategically assist the housing affordability team at the Chan-Zuckerberg Initiative, utilizing technical expertise to contribute towards their research agenda portfolio. This entails:

- Developing a machine learning tool to simulate various economic scenarios (e.g. inflation, mortgage rates, levels of gov spending, private investment levels) and their impacts on housing issues (new housing production, residential sales, housing costs, displacement rates of households, mortgage lending).
- Incorporating predictions of housing prices based on historical data
- Creating a dashboard that visualizes the percentage of households who can afford to buy a home in their city or region based on local incomes and housing costs.

Internal Partners: Program Officer- Housing Affordability, Vice President, Head of Community

Datasets:

- Publicly available datasets

Coding Languages: Python, Tableau

Specific Skills

4. Data management/collection/curation/ingestion/cleaning with Python
5. Knowledge of ML algorithms
6. Experience with data visualizations, exploratory data analysis, and data processing

Expected Technical Difficulty: **Medium**