

HACKCMU 2024 PROJECT

# InsurAI



## PROBLEM STATEMENT



**The average American pays too much for health insurance.**

**Private health insurance plans charge 2X MORE than Medicare alternatives.**

**\$7.7 BILLION in health spending is lost yearly to private insurers.**

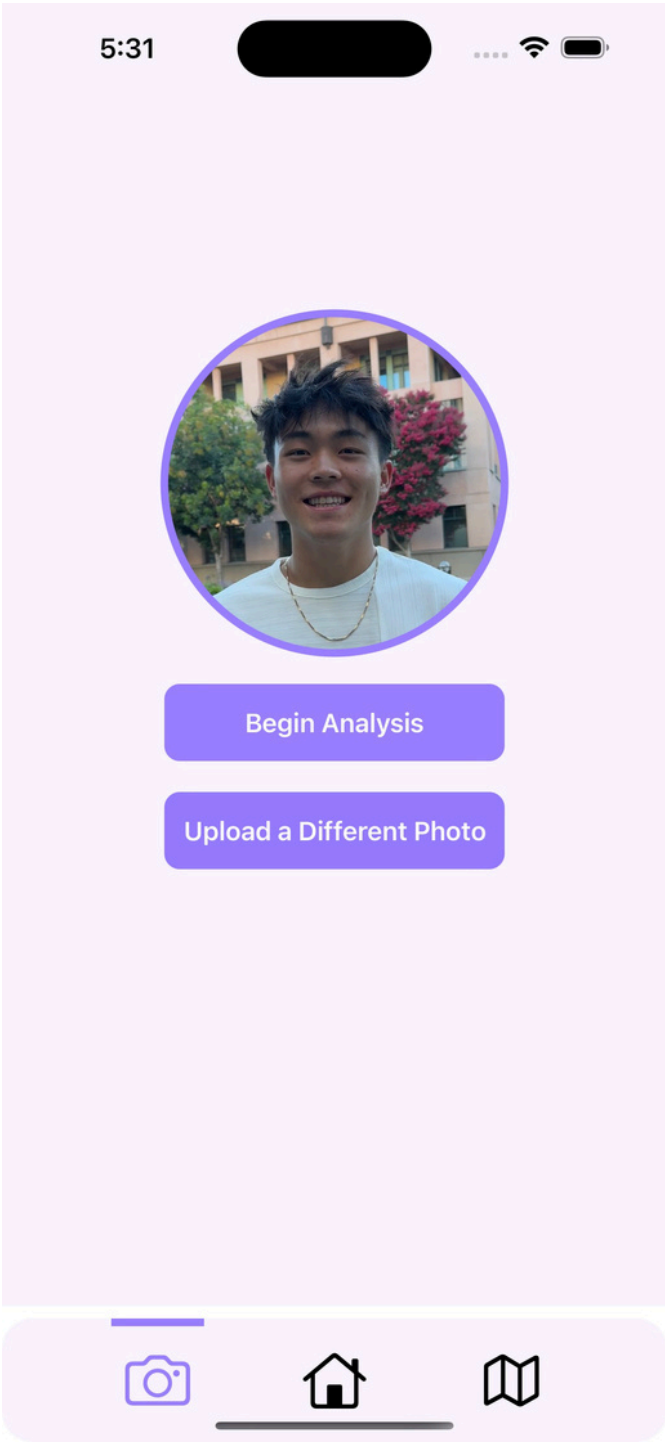
**156 MILLION Americans rely on work-sponsored insurance programs.**



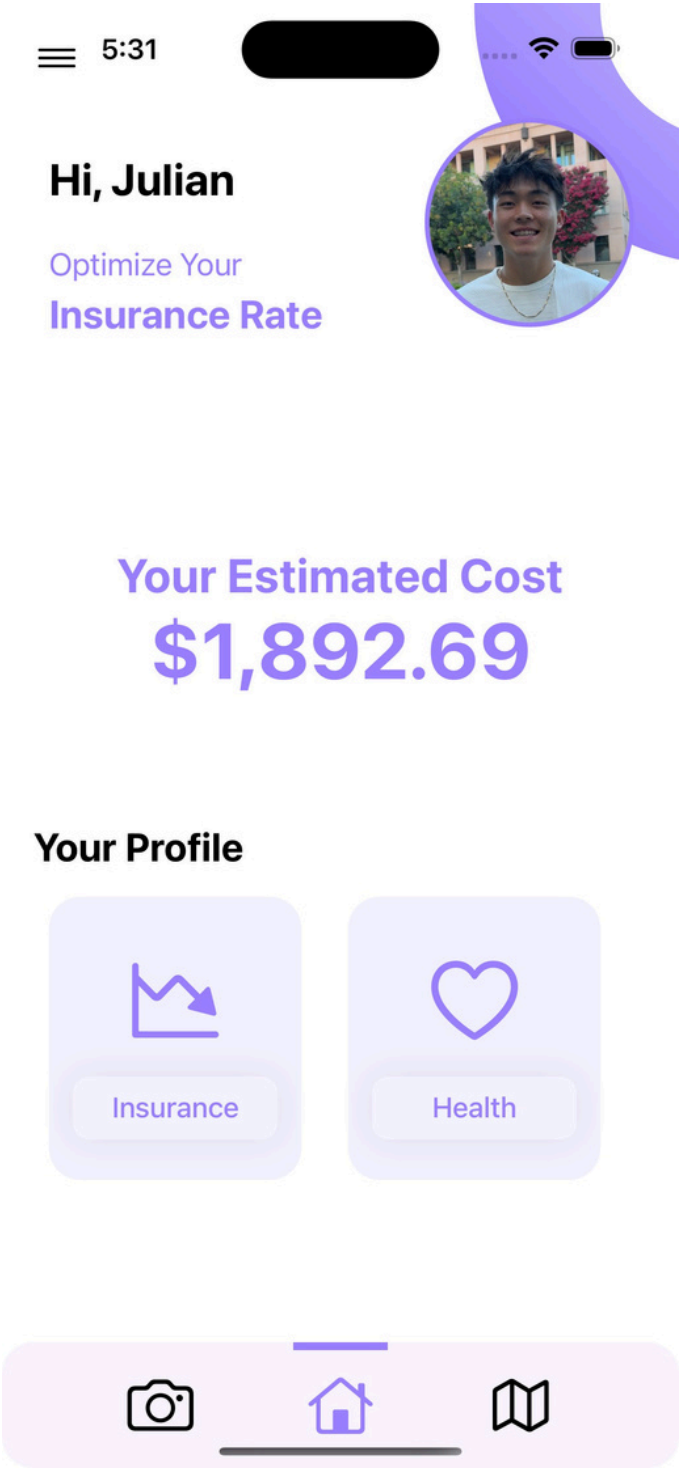
# InsurAI

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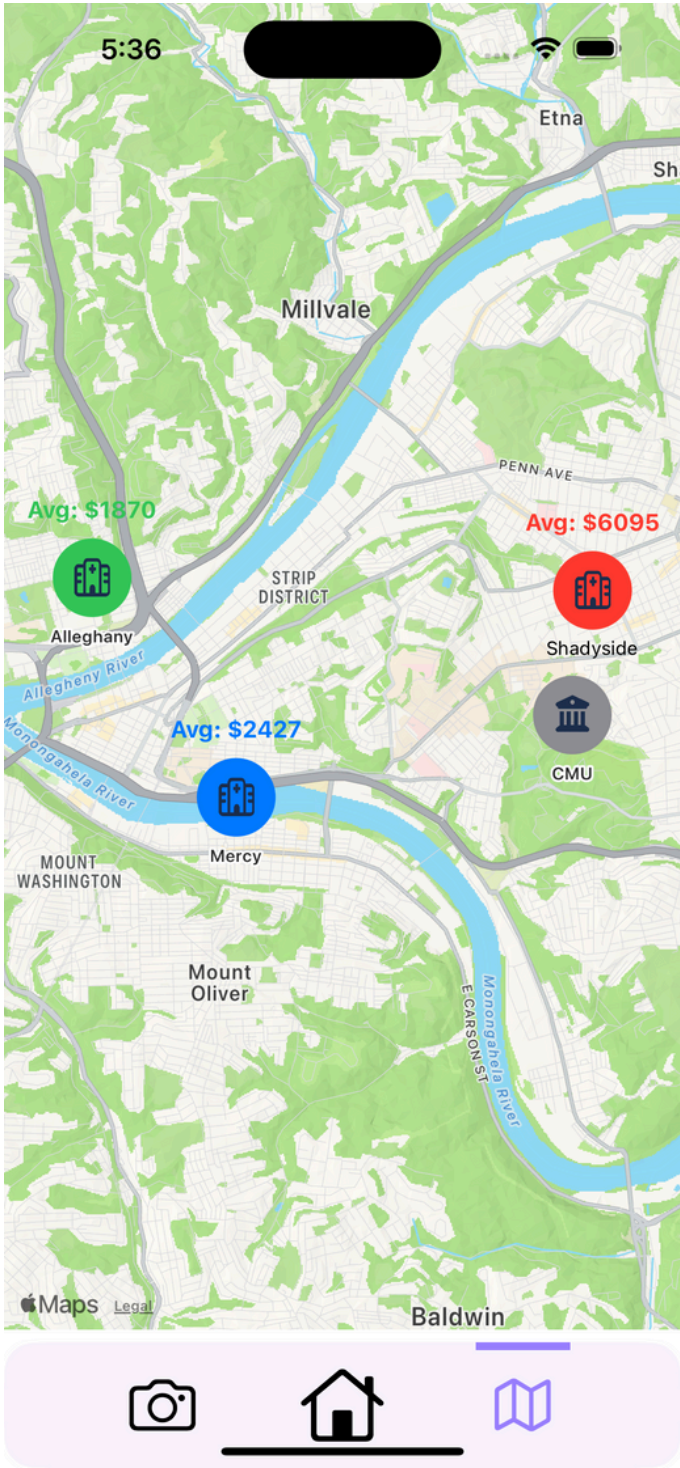
**A comprehensive, AI-powered healthcare financial matter that puts Americans on equal footing with equal pharma.**



Profile Creator



Home Screen  
Insurance Calculator



Nearby Prices

# HOW IT WORKS



## Data Analysis



## Machine Learning





# DATA ANALYSIS

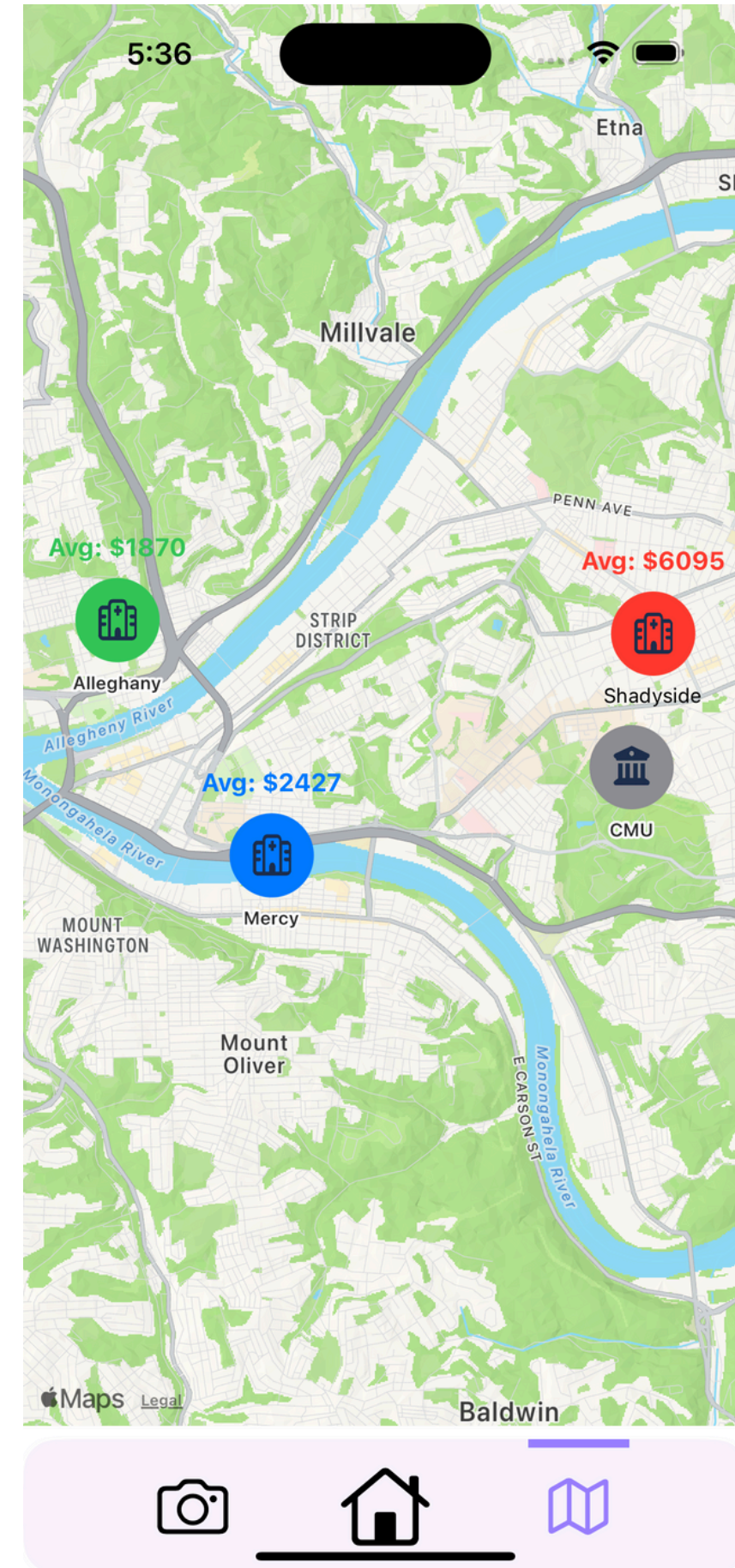


We measured the following data metrics:

- Standard charge data
- UPMC Price Estimator Tool
- Insurance Price Data

Calculated expected insurance rate at various hospitals in the locality

Comprehensive visualization through Maps Interface





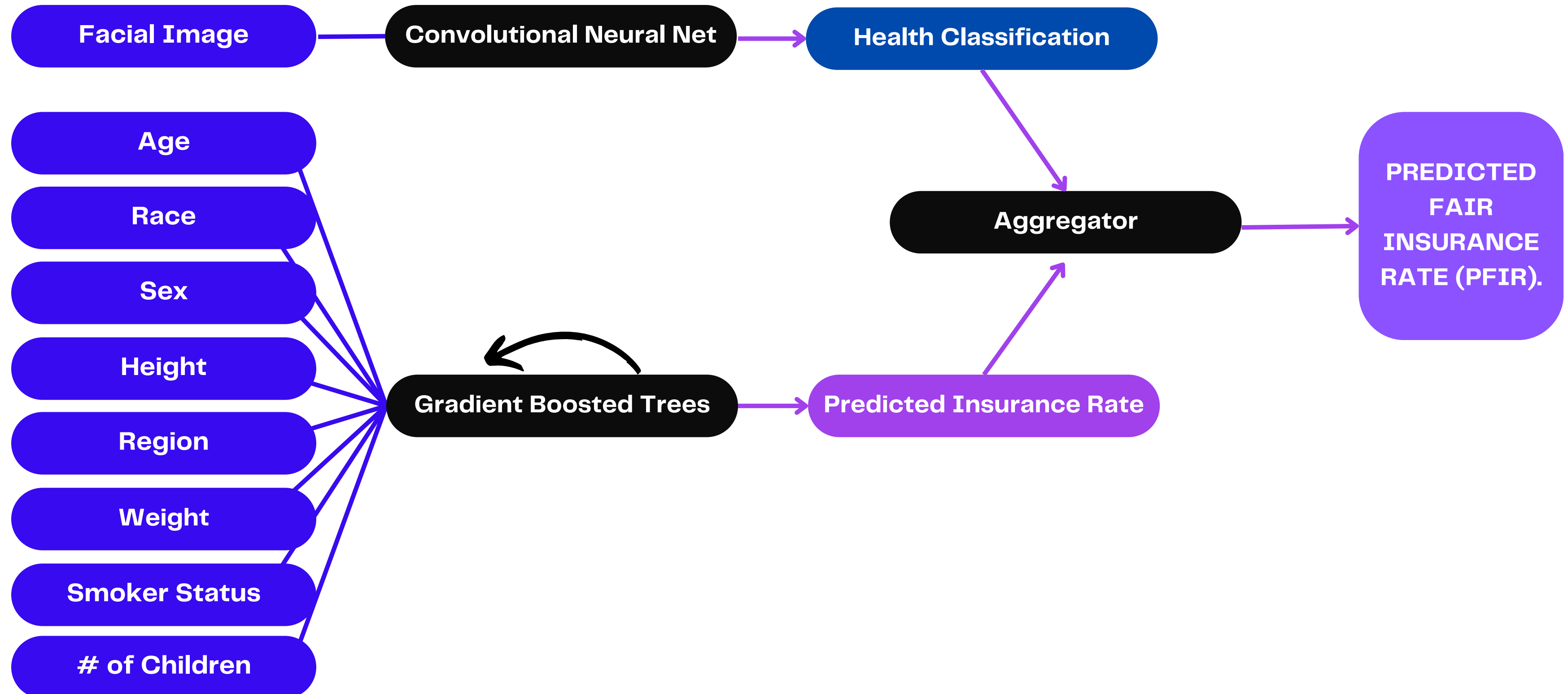
Using our comprehensive facial imaging database, we created a model to calculate the overall healthcare metric:



# MACHINE LEARNING



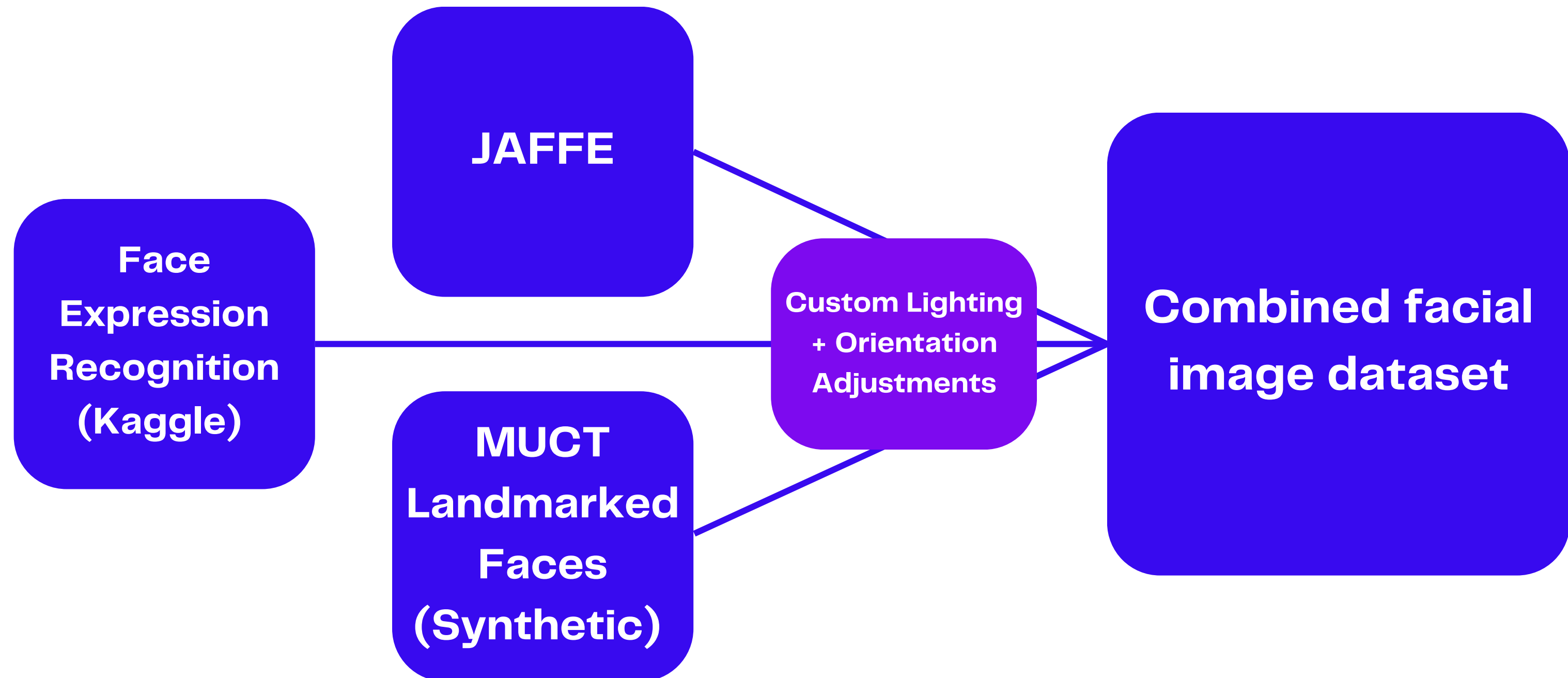
Our infrastructure consists of two models: a series of 100 gradient boosted trees, a CNN, and an aggregator.



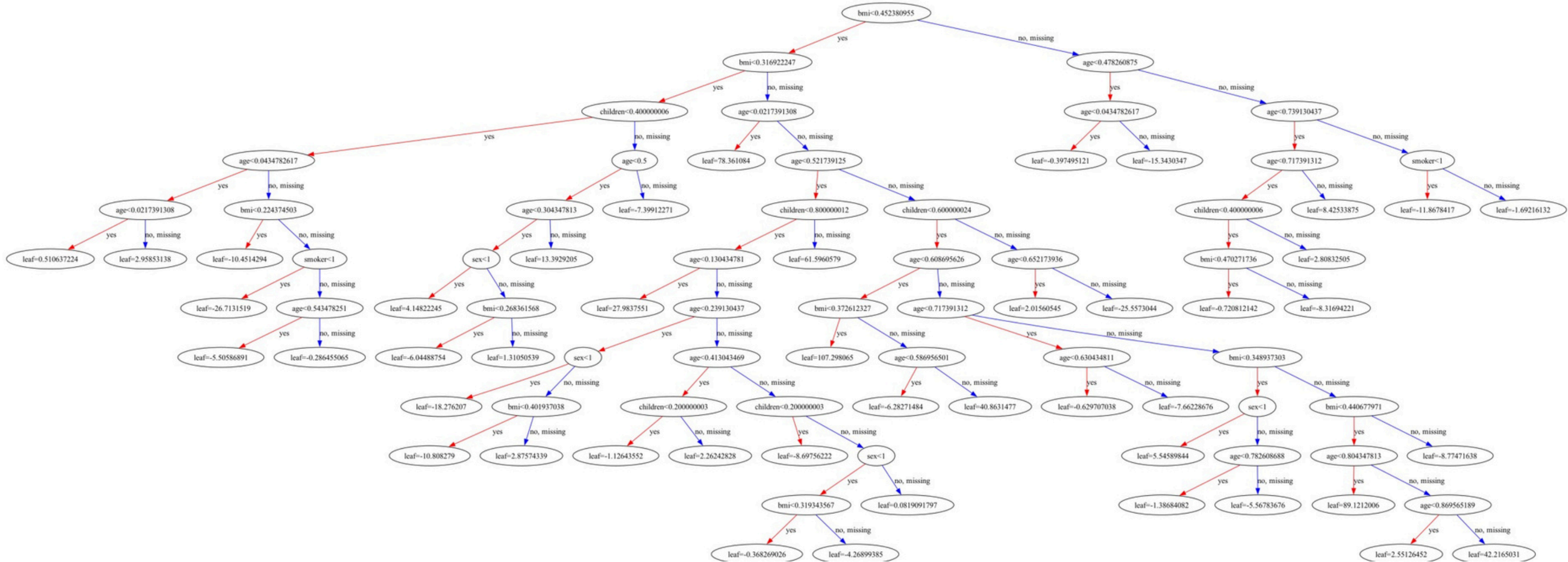




By cleaning and combining various datasets, we were able to create a comprehensive facial image dataset.



# MACHINE LEARNING



# App Demo

**Thank You!**