Mohamed Ganda

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EDUCATION

University of California, Berkeley **Berkeley, CA**

Data Science, B.A. |*Certificate in Entrepreneurship & Technology* *Graduation Date: May2026*

Relevant Coursework: Multivariable Calculus, Linear Algebra and Differential Equations, Discrete Mathematics and Probability, Principles & Techniques of Data Science, Data Structures, Data Engineering

Affiliations: Computer Science Mentors (Coordinator & Python Teacher)

EXPERIENCE

Better Ballot **Berkeley, CA**

Full Stack Engineer *Jun 2024 - Present*

- Led a 5-member team in launching a voter engagement platform aggregating election data from 50+ sources and compiling a database of 10K+ candidates.
- Built full-stack features with **React** and **Google Maps API** including location-based tracking, auto-suggest text input, and NLP-powered policy tagging.
- Designed and implemented the website front-end using **Figma**, **JavaScript**, **HTML/CSS**, and integrated it into **Bootstrap** for responsive, accessible layouts.
- Developed a dynamic back-end tagging system using **keyword matching** and **topic modeling** to classify candidate statements.

Afterwork **San Francisco, CA**

Software Engineering Intern *Jun 2023 - Aug 2023*

- Reduced venue request form time by streamlining database queries, caching frequent calls, and batching API requests.
- Enhanced AI scheduling tool using **graph search** with memoization to improve planning efficiency and system scalability.
- Built a real time user interaction tracking with **PostgreSQL** triggers and Python ETL scripts, enabling weekly dataset extraction for model retraining and batch recommendations.

PROJECTS

Commodity Forecasting Challenge (Kaggle Competition)

Participant | Ongoing (Python) *July 2025 – Present*

- Developed **time-series forecasting models** (XGBoost, LightGBM, LSTM) on multi-market data from LME, JPX, US Stocks, and Forex, achieving a **top 15% cross-validation score** on the competition leaderboard.
- Engineered **lag features, rolling statistics, and volatility indicators** to optimize for a **Sharpe-ratio-based** objective, using Python (**NumPy, pandas, scikit-learn**)
- Built **resource-efficient training pipelines** within Kaggle's 8-hour GPU runtime and offline execution constraints, incorporating **data preloading** and **model checkpointing** to reduce run-time by ~30%.

Predictive Housing Analytics in Cook County

Python, Pandas, Scikit-learn, Seaborn *Oct 2024*

- Conducted data preprocessing and exploratory data analysis on a 200K+ record housing dataset by cleaning missing values, filtering outliers, and creating new features (log-transformed price data) for better analysis.
- Designed and implemented feature engineering pipelines, including one-hot encoding categorical variables & creating derived variables by pairing the features to optimize data readiness for linear regression modeling.
- Built and evaluated 3 predictive models with scikit-learn to drive RMSE improvements by running feature selection & model refinement while analyzing residuals to accurately predict the tax bracket of house owners.

SKILLS

Languages: Python, Java, JavaScript, HTML, CSS, SQL, R

Tools/Frameworks: React, Bootstrap, Google Maps API, Figma, Git, Github, Kaggle, Jupyter Notebook, Docker

Libraries: pandas, NumPy, scikit-learn, XGBoost, LightGBM, TensorFlow, Matplotlib, NLTK, spaCy