

# DHRUVI KADHIWALA

College Park, MD 20740

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## Education

University of Maryland, College Park

Aug. 2022 – Dec. 2025

Bachelor of Science in Information Science, Minor in Business (GPA: 3.47 / 4.00)

Dean's List

## Relevant Coursework

Machine Learning, Data Engineering, Artificial Intelligence, Data Visualization, Database Management, Statistics

## Experience

### Data Engineering Intern

June 2025 – Aug. 2025

Fannie Mae | Python, SQL, AWS (Bedrock, SageMaker, Redshift), BitBucket, XGBoost, Streamlit

Reston, VA

- Designed and deployed an XGBoost-based machine learning pipeline using 1M+ loan records to predict delivery outcomes, improving model AUC by 18% and recall by 22%.
- Integrated GenAI via AWS Bedrock and LangChain to support 500+ natural language queries on model predictions and loan metadata.
- Built a secure Streamlit chatbot interface enabling 30+ analysts to access ML insights without writing SQL, reducing manual query time by 60%.

### Data Analyst Intern

June 2024 – Oct. 2024

Creative Associates International | Python, SQL, Power BI, Tableau

Washington, D.C.

- Conducted market research across 5+ countries and developed 10+ interactive dashboards in Tableau and Power BI to inform 20M+ dollars development program strategies.
- Designed and maintained end-to-end ETL pipelines using Python (pandas) and SQL, reducing data processing time by 60% and enabling clean, analysis-ready datasets.
- Automated weekly and monthly KPI reports used by senior leadership, improving data accessibility and accelerating decision-making cycles by 35%.

### Teaching Assistant – OOP & Data Sources and Manipulation

Sept. 2024 – Dec. 2025

University of Maryland | Python, SQL

College Park, MD

- Object-Oriented Programming:** Supported 100+ students in Python OOP through labs, office hours, and reviews; graded 50+ projects with detailed feedback on readability, modularity, and algorithmic logic.
- Data Sources and Manipulation:** Guided students in data acquisition, cleaning, and integration using Python and SQL; led labs on managing data quality and applying ETL workflows for analysis-ready datasets.

## Projects

MoneyTrail | React, Flask, CapitalOne Nessie API, MongoDB

April 2025

- Built a full-stack financial fraud detection tool to simulate 5K+ banking transactions and flag suspicious activity using custom rule-based logic and ML-ready scoring methods.
- Developed backend workflows with the CapitalOne Nessie API and MongoDB to handle account linking, transaction streaming, and anomaly detection.
- Designed an interactive dashboard using React and Flask with D3-powered graphs to visualize transaction patterns, risk scores, and entity relationships.

Electra | Cerebras API, LLMs, Python

September 2024

- Built a real-time multi-agent LLM system simulating voter behavior across 3,000+ U.S. counties using the Cerebras API.
- Implemented NLP pipelines for 10x faster inference and classification of 50+ election scenarios with policy modeling.

Montgomery County Crime DB | MySQL, SQL, ERD Design

April 2024 – May 2024

- Analyzed 300K+ crime records using SQL joins, subqueries, and aggregations to uncover spatial and temporal trends.
- Designed a 10-table normalized schema with ERD to enable scalable reporting and reduce data redundancy by 40%.

Mortgage Master | JavaScript, Node.js, React, Python, SQLite

April 2024

- Cleaned and merged 12M+ severe weather and housing data points down to 40K high-quality records for analysis.
- Built an interactive full-stack dashboard to visualize weather-driven real estate trends across 50+ U.S. counties.

## Technical Skills

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

**Data Science & ML/AI:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter, LLMs, AWS Services, XGBoost, joblib

**Visualization & Web Development:** Tableau, Power BI, D3.js, React, Node.js, Flask, Streamlit

**Databases/DevOps:** MongoDB, SQL, Redshift, Psycopg2, Google Cloud Console, pgvector