

Jill Chaudhari

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EDUCATION

Texas A&M University

B.S. Computer Science and Engineering
Deans Honor Roll, Mathematics Minor

College Station, TX

December 2026

GPA: 3.82/4.0

TECHNICAL SKILLS

- Languages: Python, C++, Java, JavaScript, SQL, HTML/CSS
- Frameworks & Libraries: React.js, Node.js, Express.js, TensorFlow, PyTorch, Flask, Scikit-learn
- ML & Data Analysis: Pandas, NumPy, Matplotlib, Apache Spark, Hugging Face, Statistical Modeling, Transfer Learning
- Cloud & DevOps: AWS, Microsoft Azure, Docker, Kubernetes, CI/CD, Git/GitHub, Google Firebase
- Databases and Systems: MySQL, MongoDB, Apache Kafka, Apache Spark, Firestore
- Development Tools: RESTful APIs, Postman, Linux/Unix, Agile/Scrum, Unit Testing (JUnit / PyTest), Jupyter Notebooks, TensorBoard

EXPERIENCE

Toyota Commercial Finance

Software Engineering Intern – Data

May 2025 – August 2025

- Developed a prototype AI assistant using LLMs and NLP to automate internal support queries with 85% accuracy.
- Assisted in building and maintaining backend services using SQL and Microsoft Azure to support financial applications for Toyota's commercial equipment financing operations.
- Contributed to performance improvements in cloud-based data pipelines by analyzing query execution plans and testing optimization strategies.

Texas A&M University – Urban Resilience.Ai Lab

Undergraduate Researcher – Machine Learning

May 2024 – August 2024

- Developed machine learning models (TensorFlow, Scikit-learn) to predict flood-induced pollutant dispersion from 230+ toxic facilities, improving risk assessments for 500,000+ Texas coastal residents.
- Analyzed 100,000+ geospatial and demographic data points using Pandas and NumPy to identify high-risk census tracts and underserved communities.
- Designed spatial buffer zones (1–5 miles), integrated ML outputs with census data, and presented findings to stakeholders and policymakers to support climate adaptation and environmental justice strategies.

PROJECTS

WasteWise – AI-Powered Waste Classification Web App

- Designed and deployed a full-stack web app that classifies waste items (Recyclable, Compostable, Trash, Hazardous) using barcode scanning and AI-powered NLP via Hugging Face models.
- Designed a mobile-responsive frontend using React and Tailwind CSS; developed a Node/Express backend to integrate OpenFoodFacts API for real-time product lookup and classification.
- Implemented Firebase Authentication, Firestore logging, and Recharts-powered dashboards to visualize user-specific waste data and patterns over time.

Chest X-ray Classification (Hackathon Project)

- Developed a multi-label image classification pipeline using pretrained CNNs (VGG16, ResNet50, EfficientNet) on a chest X-ray dataset.
- Applied transfer learning, data augmentation, checkpointing, and early stopping to improve model generalization and performance.
- Deployed a Flask API to serve real-time predictions from trained models; visualized training metrics using Matplotlib and TensorBoard.