

POOJA PATEL

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Profile

Computer Science undergraduate specializing in machine learning and distributed systems. Seeking an AI/Data Engineering research internship to apply a strong foundation in Python, cloud computing, and large-scale data processing to solve complex problems. Experienced in developing and deploying full-stack applications with a focus on building robust data pipelines and implementing machine learning models.

Technical and Research Experience

Disaster Risk Prediction Platform [\[View Project\]](#)

Developer & Architect

- Architected and developed a full-stack disaster risk prediction platform, implementing a Random Forest Classifier in Python using Scikit-learn to predict event likelihood.
- Engineered a data ingestion pipeline to process and clean 5 GB of geospatial and meteorological data from public APIs, performing feature engineering to improve model performance.
- Deployed the application as a containerized service on Docker also using Kubernetes, providing a REST API for front-end visualization.

ChronoVault – Mental Wellness Platform [View Project](#)

Founder & Full Stack Developer

- Designed and built a full-stack web application using a Python backend and MongoDB database to provide users with mental wellness tools and ethically-grounded AI engagement features.
- Developed a content recommendation engine by performing exploratory data analysis (EDA) on user interaction data to identify engagement patterns.
- Managed the complete software development lifecycle, including CI/CD pipelines with GitHub Actions for automated testing and deployment.

Skills

Programming: Python, Java

AI/ML Frameworks: PyTorch, TensorFlow, OpenCV, Scikit-learn

Big Data Tech: Apache Spark, Apache Airflow

Cloud & DevOps: GCP, AWS, Docker, Kubernetes

Databases: Relational (PostgreSQL), NoSQL (MongoDB)

Data Engineering Concepts: ETL, Data Pipelines, Data Modeling

Education

Parul University

2022 – 2026

Bachelor of Technology in Computer Science Engineering

Vadodara, India

- CGPA: 8.0/10 (First Class with Distinction)

Certifications

Credly Profile – [Link](#)

Leadership & Volunteering

National Cadet Corps (NCC)

2022 – 2025

Cadet

- Led teams in crisis management simulations and civic engagement campaigns, developing strong collaboration, communication, and problem-solving skills.