

## SUMMARY

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Computer Science undergraduate with hands-on expertise in **Machine Learning**, **Generative AI**, and **Mobile Development**. Skilled in building production-ready ML pipelines, fine-tuning LLMs, and deploying scalable AI solutions. Passionate about delivering real-world impact through technology and looking forward to endless opportunities to innovate and grow.

## EDUCATION

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### Navrachana University, Gujarat Technological University - *B.Tech in Computer Engineering (GPA: 3.9/4.0) June 2021 - May 2025*

- Mentor of Coding & Hackathon Club
- Member of Neofolks Design (UI/UX) Team
- Course Work: *Data Structures, Database Management Systems, AI/ML, Computer Vision, Cyber Security, Cloud Computing, Data Science, Operating Systems, System Engineering and Computer Networks*

## EXPERIENCE

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### Data Science and Machine Learning Intern | Param Group of Companies | Vadodara, India

Jan 2025 - May 2025

- Automated e-commerce data extraction using BeautifulSoup/Selenium and developed an end-to-end machine learning pipeline for price prediction, incorporating MLflow for experiment tracking and DVC for data and model versioning.
- Engineered structured personality profile vectors to fine-tune open-source LLMs on relationship-centric datasets, enhancing contextual understanding and response personalization.
- Optimized prompt engineering strategies, achieving a 20% increase in LLM response relevance, and integrated embedding-based semantic search within a vector database to enable intelligent retrieval capabilities.

## PROJECTS

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### Wildlife Detection using Mobile Camera

Python, OpenCV, YOLO, Mobile Integration, Raspberry Pi

- Engineered a real-time wildlife detection system by integrating a YOLO-based model with mobile and Raspberry Pi cameras, achieving 95% detection accuracy for animals, vehicles, and humans.
- Implemented real-time alert mechanisms: Twilio-based SMS alerts for mobile integration and an alphabetic display module on Raspberry Pi for on-site visual notifications, enabling responsive and efficient forest surveillance.

### Crop Recommendation App

Android Studio, ML, Firebase, OpenWeatherMap API

- Developed an ML-powered Android application offering dynamic crop recommendations based on real-time weather data, soil conditions, and disease predictions via image analysis and integrated APIs.
- Implemented a scalable architecture with Firebase backend for seamless user management and data storage, enhancing agricultural decision-making efficiency.

### Sentiment Analysis Platform

Python, NLTK, scikit-learn, pandas

- Designed and trained an NLP-based sentiment classification system using advanced preprocessing pipelines and machine learning algorithms, achieving high accuracy across diverse test datasets.
- Deployed scalable sentiment analysis models capable of real-time text classification for social media and customer feedback monitoring applications.

### Offline Music Player Application

Android Studio (Java)

- Built a feature-rich offline music player with custom theme support, playlist management, and optimized UI navigation to deliver a seamless user experience on Android devices.
- Implemented background services, notification controls, and efficient media management, showcasing expertise in Android multimedia development.

## PROGRAMMING SKILLS

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**Languages:** Python, Java, C, C++, JavaScript, TypeScript, PHP, MySQL, HTML, CSS

**Tools/Frameworks:** Android Studio, Firebase, OpenWeatherMap, MLflow, DVC, Git, TensorFlow, Firebase, AWS, GraphQL, REST APIs, Django, Flask, Raspberry Pi

**Area of Interest:** Machine Learning, Data Science, Full Stack Development, UI/UX Designing

## LICENSES AND CERTIFICATES

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- AWS Academy Machine Learning for Natural Language Processing
- AWS Academy Machine Learning Foundations
- Computer Vision Essentials by Great Learning