

## SUMMARY

Computer Science undergraduate skilled in Data Science and Software Development, with experience building predictive models and reliable software solutions. Passionate about combining analytical thinking and engineering to create meaningful, data-driven systems.

## EDUCATION

Navrachana University - B.Tech in Computer Engineering (GPA: 3.9/4.0)

June 2021 - May 2025

- Mentor of Coding & Hackathon Club
- Course Work: Data Structures, Database Management Systems, AI/ML, Computer Vision, Cyber Security, Cloud Computing, Data Science, Operating Systems, System Engineering and Computer Networks

GJ, India

## EXPERIENCE

Application Developer Intern | Dev Software and Services Pvt. Ltd. | Mumbai, India

Sep 2025 - Present

- Focused on building and optimizing Android applications using Android Studio and Java. Contributing to end-to-end frontend development lifecycle - including UI/UX design, API integration, testing, and performance enhancement.
- Tech stack: Android Studio - ViewModel, DataBinding, Navigations, Kotlin

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

Jan 2025 - May 2025

- Scraped e-commerce data using BeautifulSoup and implemented a machine learning pipeline for price prediction with MLflow tracking and DVC versioning. Cleaned and preprocessed raw data by handling missing values, outliers, duplicates, and normalization to ensure high-quality inputs for modeling.
- Optimized prompt design, leading to a 20% improvement in LLM response relevance, and integrated embeddings for semantic search within a vector database.
- Tech stack: Python, SQL, Scikit-Learn, PyTorch, TensorFlow, Data Visualization

## PROJECTS

Wildlife Detection using Mobile Camera

Python, OpenCV, YOLO, Mobile Integration, Raspberry Pi

- Designed a real-time forest surveillance system using a fine-tuned YOLOv5s model for detecting animals, vehicles, and humans with 95% accuracy. Integrated OpenCV to process thermal video streams from mobile and Raspberry Pi cameras. Trained on Roboflow thermal datasets and custom wildlife images to enhance model robustness.
- Real-time alerts enabled via Twilio API, sending SMS notifications to forest rangers after threat detection. Integrated an alphabetic display module to show onsite messages such as 'Human Detected' or 'Animal Detected.'

Crop Recommendation App

Android Studio, ML, Firebase, OpenWeatherMap API

- Developed an Android application that fetches real-time weather data using OpenWeatherMap API, and performs soil type and plant disease detection using image classification models built with TensorFlow Lite CNN.
- Integrated an expense management module for tracking farming costs and built a user-friendly interface for seamless input, visualization, and decision support in agriculture.

Sentiment Analysis Platform

Python, NLTK, scikit-learn, pandas

- Developed a sentiment analysis platform using Python, NLTK, and scikit-learn with models like Logistic Regression, SVM, and Naive Bayes, achieving 90% accuracy.
- Implemented a full preprocessing pipeline and deployed the model via Flask with a simple UI for real-time sentiment prediction.

Offline Music Player Application

Android Studio (Java)

- Developed an offline music player app in Android Studio (Java) featuring background playback, notification controls, and playlist management using the MediaPlayer API and SharedPreferences.
- Designed a responsive dark/light themed UI with smooth transitions, optimized for performance on low-end Android devices.

## PROGRAMMING SKILLS

**Languages:** Python, Java, C, C++, JavaScript, TypeScript, PHP, SQL (MySQL), HTML, CSS  
**Libraries & Frameworks:** React, TensorFlow, PyTorch, scikit-learn, OpenCV, NLTK, Pandas, NumPy, Matplotlib, Hugging Face  
**Tools & Platforms:** Android Studio, Git, Firebase, Raspberry Pi, AWS, REST APIs, Flask, FastAPI, Streamlit  
**Areas of Interest:** Generative AI, Machine Learning, Data Science, Computer Vision, Full Stack Development, UI/UX Design

## LICENSES AND CERTIFICATES

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