

UJJWAL SINGH

Software Engineering Intern — Machine Learning — Mobile Development
India

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Summary

Computer Science undergraduate building AI-powered and mobile applications using machine learning models, REST APIs, and modern mobile frameworks. Interested in scalable backend systems, applied machine learning, and data-driven applications.

Technical Skills

Programming: Python, Dart, Swift, Java, C, C++

Machine Learning: TensorFlow, Keras, CNN, Transfer Learning, Image Classification

Mobile Development: Flutter, SwiftUI, MapKit, Riverpod

Backend Development: REST APIs, Flask, FastAPI

Databases: SQLite, MongoDB

Data Science: Pandas, NumPy, Matplotlib, Data Preprocessing

Tools: Git, GitHub, Visual Studio Code, Xcode, Jupyter Notebook

Core CS: Data Structures, Operating Systems, Computer Networks, DBMS

Projects

TerraHerb – AI Plant Disease Detection System

- Developed a deep learning based plant disease detection system using image classification.
- Implemented transfer learning with TensorFlow CNN models achieving high accuracy on plant leaf datasets.
- Built a Flask REST API allowing users to upload plant images and receive disease predictions with treatment suggestions.
- Applied data augmentation and preprocessing techniques to improve model performance.

UDIE – iOS Disruption Intelligence Client

- Built an iOS application for real-time disruption intelligence and predictive routing.
- Implemented spatial heatmap visualization using MapKit to represent risk surfaces.
- Integrated backend APIs to retrieve disruption data and dynamically evaluate route safety.
- Designed modular mobile architecture using SwiftUI and modern concurrency patterns.

LifeTrack – Privacy First Health Tracking App

- Developed an offline-first mobile health management application using Flutter.
- Implemented Riverpod state management and SQLite database for secure local data storage.
- Built dashboards for tracking activity, hydration, vitals, and health metrics.
- Designed modular architecture supporting scalable feature development.

Experience

Data Analytics Virtual Internship – Deloitte (Forage) 2026

- Analyzed structured datasets to derive insights and simulate real-world analytics decision workflows.

Software Engineering Virtual Experience – JPMorgan Chase & Co. (Forage) 2025

- Translated functional requirements into modular components and debugged structured code tasks.

Solutions Architecture Virtual Experience – AWS (Forage) 2026

- Designed scalable cloud infrastructure architectures considering reliability and cost constraints.

Certifications

AWS Technical Essentials (AWS Forage)

Software Engineering Virtual Experience (JPMorgan Chase & Co. Forage)

Data Analytics Virtual Internship (Deloitte Forage)

AI and Machine Learning Fundamentals

Java Programming Certification

Education

B.Tech in Computer Science 2023 – 2027

VIT University