

BHYRESH BS

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SUMMARY

AI/Machine Learning Intern candidate. B.Tech Computer Science student (AI/ML focus) with hands-on experience in machine learning, deep learning, natural language processing (NLP), and large language model (LLM) integration. Experience building and shipping end-to-end AI applications spanning natural language intent parsing, speech-to-text, and risk classification, alongside full-stack and mobile development.

SKILLS

Programming Languages: Python, Java, C, JavaScript, TypeScript, Object-Oriented Programming (Java)

Machine Learning & AI: Machine Learning, Deep Learning, Natural Language Processing (NLP), Large Language Models (LLM Integration & Prompt Engineering – Groq Llama 3.1, Google Gemini), On-Device AI (Whisper.cpp, TinyLlama, TensorFlow Lite), Convolutional Neural Networks (CNN)

ML/Data Libraries: TensorFlow, Scikit-learn, Pandas, NumPy

Frameworks: React, Next.js, FastAPI, Spring Boot, Jetpack Compose

Cloud & Databases: AWS (boto3), Docker, Firebase/Firestore, MySQL, PostgreSQL

Tools: Git, GitHub, Android Studio

EDUCATION

RV University — B.Tech, Computer Science and Engineering

CGPA: 8.32 | Bengaluru, India

Aug 2024 – Sep 2028 (Expected)

PROJECTS

COMS – Cloud Orchestrator and Management System

Apr 2026 – Present

Python, FastAPI, React, Groq Llama 3.1, boto3, Firebase, Docker

- Built an AI-powered cloud orchestration platform that converts natural language into AWS actions through a 5-stage agent pipeline: NLP parsing, clarification, policy validation, risk classification, and execution.
- Used Groq (Llama 3.1 8B) as the primary LLM for intent parsing, with Google Gemini 2.5 Flash as fallback, achieving roughly 1-2 second end-to-end pipeline latency.
- Built intent normalization logic to handle LLM hallucinations and fuzzy region-name matching for more reliable natural language understanding.
- Designed a risk-classification and RBAC policy engine that auto-executes low-risk actions and escalates high-risk ones for admin approval, with immutable Firestore audit logging.

AshaSaathi – AI Assistant for Rural Health Workers

Nov 2025 – Present

Kotlin, Jetpack Compose, Whisper.cpp, TinyLlama, TensorFlow Lite, Firebase

- Built an offline-first Android app helping ASHA health workers in rural India digitize patient records, built for the mind2i Hackathon.
- Integrated on-device Whisper.cpp speech-to-text and a TinyLlama NLU model for voice-driven form filling in Hindi, Kannada, and English.
- Trained/deployed an on-device TensorFlow Lite model to automatically flag high-risk patients using clinical thresholds (blood pressure, hemoglobin, gestational diabetes, TB).
- Designed an offline-first sync architecture (local cache with Firestore sync) supporting vaccination tracking, TB treatment adherence, and automated government report generation.

Voyiq – AI Travel Planning Platform

2026

Next.js, React 19, TypeScript, Google Gemini, Firebase

- Built a full-stack travel and transport management platform with role-based access control and secure, encrypted document handling.
- Integrated the Google Gemini LLM to generate multiple AI-curated trip itineraries with geocoded waypoints, timing, and cost estimates from natural-language traveler preferences.
- Implemented a context-aware AI chat assistant and real-time interactive map tracking (Leaflet) for ongoing trips.
- Secured generative AI endpoints with token authentication and rate limiting to prevent abuse.

CERTIFICATIONS

NPTEL Certified Python Developer