# Bruhat B Kulkarni

+91 944 832 6517 kulkarnibruhat@gmail.com linkedin.com/in/bruhat15 github.com/bruhat15

## EDUCATION

**RV University, Bengaluru** — B.Tech (Hons.) CSE, AIML Major CGPA: 8.76 2023–2027

SRPU Kavalagi — PUC Science (PCMB, Class XI–XII) 96%

Jawahar Navodaya Vidyalaya (JNV), Almatti, Vijayapur — Class VI–X 88%

## EXPERIENCE

**AI Engineer Intern — Ofofo** Jun 2026 – Sept 2026

- Built an MCP server exposing an existing SOC2 platform's compliance checks to LLM agents as callable tools.
- Ran on-site client infrastructure work: system audits, firewall upgrades, troubleshooting, and deployment.

**Software Engineer Intern — Sri Aranea** Jan 2026 – Apr 2026

- Extended PossibleClients, an existing lead-discovery platform (Flask backend, React admin UI), with an AI-powered prospect ranking flow; took core flows to staging.
- Designed the subscription and entitlement layer: plan-to-feature mappings, server-side quota enforcement, and admin controls for plan deprecation and vendor migration.
- Added session-based auth, authorization controls, CSRF protection, and a more reliable job scheduler.

## SKILLS

**Languages**: Python, Java, SQL

**Backend**: REST APIs, Flask, FastAPI, MCP servers, microservices

**Databases**: PostgreSQL, MySQL, MongoDB, Supabase, pgvector

**Cloud/DevOps**: Docker, GitHub Actions, CI/CD, AWS, GCP, Linux

**AI/ML & Tools**: Scikit-learn, LLM agents, RAG, Streamlit, Git, Postman, JIRA, n8n

## PROJECTS

**Vaani — Real-Time Voice AI Tutor** *(Python, LiveKit, Docker, GCP)* `vani-gules.vercel.app`

- Built a streaming voice pipeline — Silero VAD, Groq Whisper ASR, Groq-hosted LLM, Google Neural2 TTS — carried over LiveKit WebRTC.
- Cut time-to-first-audio from 10–20s to ~1.5s by buffering LLM tokens to sentence boundaries and dispatching TTS per sentence instead of per response, and moving ASR/LLM inference onto Groq LPUs.
- Deployed 4 containerised services on GCP (n8n, LiveKit, Caddy HTTPS proxy, Python agent) via Docker Compose; Supabase/Postgres with pgvector for per-notebook RAG and auth.

**ShipWatch — Supply Chain Risk Intelligence** *(FastAPI, MCP, Next.js)* `shipwatch-app.vercel.app`

- Built an MCP server around the scanner so LLM agents can query dependency risk directly as structured tools.
- Merged OSV, CISA KEV, and OpenSSF Scorecard feeds into a single 0–10 risk index weighted across 3 dimensions (Security 40%, Maintenance 35%, Ecosystem 25%) to cut alert fatigue.
- Backed by a FastAPI service that parses project dependencies and scores them on CVSS, EPSS, and repository health.

**Rudra — ML Preprocessing Automation Engine** *(Python, Streamlit, Docker)* `rudra-ml-preprocess.streamlit.app`

- Automated preprocessing (imputation, encoding, scaling, outliers) with distinct logic per model family.
- Modular Pandas/Scikit-learn backend, Dockerised with GitHub Actions CI for automated testing and builds.

## ACHIEVEMENTS & PUBLICATION

**Winner** — Special Grants, Manthan 2026 (FKCCI & Government of Karnataka)

**Winner** — Game Design Innovation, Entrepreneurial Mindset Program

**IEEE Publication** — Metric-Driven Adaptive Temperature Prediction for Neural Text Generation
IMED 2026, IEEE Conference ieeexplore.ieee.org/document/11484146