

ABUBAKER KADLI

Computer Science Student — AI/ML & Full-Stack Developer

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Summary

Software Engineer and AI/ML enthusiast who builds **production oriented AI and full-stack applications** that solve real-world problems. Proficient in **Python, JavaScript/TypeScript, Machine Learning, Computer Vision, Graph Neural Networks, FastAPI, React, and PostgreSQL**, with a strong foundation in **Data Structures and Algorithms**. Experienced in developing **AI-powered, geospatial, and data-driven systems** through hackathons, open-source projects, and end-to-end product development.

Education

Anjuman Institute of Technology and Management

Sep 2023 - July 2027

Bachelor of Engineering (B.E), Computer Science (AIML) Engineering

Bhatkal, Karnataka

Projects

RingWatch – Abuse-Ring Sentinel | *Python, PyTorch Geometric, GINE, XGBoost, FastAPI*

September 2026

- Built a graph-based AML engine using **GINE** to detect coordinated financial abuse rings from transaction networks.
- Achieved **98.04% recall** and recovered **76.9% (40/52)** ground-truth rings using Louvain community detection.
- Benchmarked against XGBoost, improving recall from **90.86% to 98.04%**, with FastAPI scoring and explainable audit trails.

Samudra Sakshi | *Python, Geospatial, AIS, Drift Modelling*

August 2026

- Developing an SIH 2026 oil-spill attribution system with a **6-stage** Detect–Characterise–Drift–Filter–Score–Serve pipeline.
- Built a closed-loop evaluation harness with **50 trials/configuration** for vessel recovery, false attribution, and abstention analysis.
- Achieved **89.5% recovery@1** and **9.8% false top-1** using held-out learned scoring weights and evidence-based attribution.

CityGuide | *Flutter, Python, FastAPI, Supabase, PostgreSQL, PostGIS*

May 2026

- Built a community-driven Android city guide with location-based discovery and personalized similar-place recommendations.
- Developed a **FastAPI recommendation microservice** using interaction history and geospatial data with PostgreSQL/PostGIS.
- Integrated **OpenStreetMap** without paid map APIs and built a Streamlit dashboard for civic issue review and resolution.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, HTML, CSS, SQL

Frontend: React.js, Next.js, Tailwind CSS, Vite, Responsive Design, State Management

Backend: Node.js, Express.js, FastAPI, Flask, REST APIs, Webhooks, WebSockets, Socket.IO

Databases: PostgreSQL, MongoDB, Prisma ORM, Redis, Database Indexing

AI/ML: PyTorch, TensorFlow.js, Hugging Face Transformers, ONNX Runtime, Amazon Bedrock, NLP

Cloud & DevOps: AWS (Bedrock, Rekognition, Step Functions), Docker, Git, CI/CD, Vitest

Achievements

1st Place – Technical Quiz | *Sentia 2026, MITE*

April 2026

- Secured **1st Place** in the Technical Quiz, competing across multiple technical domains.

Top 5 – Coastal Innovation Hackathon | *CIH 2026*

July 2026

- Ranked **Top 5 among 150+ teams** at a national-level **24-hour hackathon**, building and pitching a technology-driven solution.