



CONTACT

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LANGUAGES

English (C1)
Malayalam (C1)
German(A2)
Hindi (A1) Tamil
(A1)

EDUCATION:

Preparatory Master’s Program in
General Management(35 ECTS)
Berlin, Germany (2019)

Bachelor of Engineering in Aero-
nautical Engineering Coimbatore,
India (2009 - 2015)
Thesis: Blisk Fan Design & Analysis of Mig 21 Jet
Engine

AAKESH RAM A.K

AI Engineer | Machine Learning Engineer | Python Back-
end & GenAI | Data Science & Analytics

PROFILE

AI Engineer with experience building AI-powered backend systems using Python, FastAPI, LangChain, and LangGraph. Contributed to a hospital appointment booking system with RAG-based FAQ retrieval, session-aware interactions, and robust backend API integration.

SKILLS

Technical:

Python, SQL, FastAPI, AsyncIO, Machine Learning, NLP, LLMs, RAG, Agentic RAG,

Tools:

LangChain, LangGraph, AutoGen, Pydantic AI, Instructor, Groq LLM, Ollama (Local LLMs), Local Embeddings, Whisper (Local & Groq Turbo), Docker, REST APIs, Webhooks, WhatsApp Bot Integration, PostgreSQL (Supabase), Power BI, Tableau, Excel, n8n Automation, Git

Analytical:

Data Cleaning and Wrangling, ETL, Data Modeling, Model Evaluation, Statistical Analysis, A/B Testing, KPI Reporting, Dashboard Development

WORK EXPERIENCE

Inker Robotics — AI Engineer (NLP and Gen AI System)

Location: Thrissur, Kerala, India
Duration: October 2025 – April 2026

- Developed backend AI services using Python and FastAPI with asynchronous processing.
- built RAG based NLP for faq queries
- Evaluated and optimized ML models using precision, accuracy, and false-positive reduction to improve routing reliability.
- Implemented state-driven langgraph workflows to ensure controlled and deterministic system behavior.
- Implemented intent guardrails, fallback mechanisms, and confidence thresholds for safe AI behavior.
- Managed session data and structured storage using PostgreSQL (Supabase).
- Applied API integration, concurrency, and idempotency concepts in event-driven systems.

PROJECTS

Applied Machine Learning & AI Projects

- Built machine-learning-driven NLP systems in Python, including FastText-based text classification for intent routing, with end-to-end dataset creation, preprocessing, labeling, and evaluation using precision, accuracy, and error analysis.
- Designed deterministic conversational workflows integrating LLMs with PydanticAI and Groq, validating outputs through experimentation to reduce false positives and ensure production-ready reliability.

Credit Card Financial Dashboard (SQL + Power BI)

- Analyzed transactional datasets and built Power BI dashboards to track KPIs and customer segmentation. [\(link\)](#)

Yulu Bike Demand Analysis (EDA + ML)

- Conducted exploratory data analysis (EDA), feature engineering, and built predictive models to improve fleet allocation and demand forecasting. [\(link\)](#)

CERTIFICATIONS

Full Stack Data Science & AI — Alma Better (2024 - 2025)

Verification ID: 09632655182454 [\(link\)](#)

Includes projects on EDA, Machine Learning, SQL & Tableau.

Advanced Certification in Full Stack Data Science&AI - IIT Guwahati(2023 - 2024)

Certificate ID: EICT/2324/076/36/522 [\(link\)](#)

FREELANCE PROJECT EXPERIENCE(2 months)

Power BI Dashboard Project – Cryptocurrency Domain

- Designed **KPI dashboards and analytical reports** for a cryptocurrency-related project.
- Built interactive **Power BI dashboards** to track performance metrics and trends.

EXTRACURRICULAR ACTIVITIES (virtual job simulations)

Tata – Empowering Business With Effective Insights.
Deloitte – Built Tableau dashboards and generated insights.