

Rahul Rathnavel K

Aspiring AI/ML Engineer & Data Scientist

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SUMMARY

Aspiring AI Engineer with a proven track record in national competitive machine learning (Amazon ML Top 2%, Techgium Top 0.1%). Experienced in building data-driven systems, deploying models, and solving complex algorithmic problems (800 LeetCode solutions). Focused on delivering clean, production-ready, and impactful AI solutions optimized for human-centric applications.

EDUCATION

Anna University Regional Campus, Coimbatore B.Tech – Artificial Intelligence and Data Science	2022 – 2026 CGPA: 8.02/10
MEPCO Schlenk Matriculation Hr. Sec. School, Madurai Higher Secondary (HSC) SSLC	2020 – 2022 93.16% 90.40%

TECHNICAL SKILLS

- **Languages & Databases:** Python, Java, SQL, MongoDB
- **AI & Analytics:** Machine Learning (ML), Deep Learning (DL), Power BI, MS Excel
- **Tools & Frameworks:** Git, Postman

EXPERIENCE

Data Analyst Intern <i>Soft Stor Technology</i>	Jun 2024 – Aug 2024
– Processed 50,000+ records from large-scale datasets to identify operational trends, improving data-driven decision-making for business stakeholders.	
– Engineered custom machine learning classification models and deployed interactive Power BI dashboards, significantly reducing manual analytical reporting time by 15 hours per week.	

KEY PROJECTS & ACHIEVEMENTS

- **Amazon ML Challenge (Top 2% / Rank 83 of 4000+):** Designed an end-to-end price prediction pipeline integrating transformer models and XGBoost across 70K+ product records, optimizing evaluation metrics through targeted model deployment.
- **LTTS Techgium 9th Edition (National Finalist / Top 0.1%):** Architected an AI-driven AIOps engine for real-time fault detection, log analysis, and automated incident resolution actions.
- **AI Smart Glass Assistive System for Visually Impaired:** Developed a real-time object detection system by training custom YOLO-Nano and ViT models deployed via a FastAPI REST API, integrating a local lightweight LLM with a mobile frontend for voice assistance.
- **Open Source Contributions & Profiles:** Authored and merged pull requests in major python libraries (Keras, SciPy, Matplotlib, SatsModels) to ensure system reliability.

CERTIFICATIONS

Oracle – Cloud Generative AI Professional	DeepLearning.AI – Deep Learning Specialization
MongoDB – Certified Associate Developer	DataCamp – Data Scientist Professional Certificate

leetcode.com/rahulrathnavel | github.com/rahulrathnavel | linkedin.com/in/rahulrathnavel