

ARUNAPRABHA K N

AI/ML Engineer | Software Developer

CONTACT

+91 9363032595

arunarayan06@gmail.com

<https://github.com/Aruna168>

www.linkedin.com/in/aruna-rayan06

TECHNICAL SUMMARY

AIML student focused on building real-world AI systems using LLMs and IoT, with an IEEE publication and hands-on project experience.

EDUCATION

M. KUMARASAMY COLLEGE OF ENGINEERING

B.E - Computer Science Engineering
(Artificial Intelligence and Machine Learning)

2023 - 2027 CGPA: 7.81

CHERAN MATRIC HIGHER SECONDARY SCHOOL

Higher Secondary Certificate
2022 - 2023 Percentage: 88.5

SKILLS

Languages:
Python, Java, C

AI/ML:
Machine Learning, Deep Learning, Natural Language Processing

Technologies:
IoT Systems, Web Development

Tools:
Git, Android Studio, VS Code, Jupyter Notebook

LANGUAGES

- English - fluent
- Tamil - native
- German - beginner
- Hindi - beginner

CERTIFICATIONS

NPTEL - Industrial Internet of Things 4.0
Elite Silver (82%), IIT Kharagpur / NPTEL

- Gen AI Using IBM Watsonx - IBM
- Machine Learning using Watson Studio - IBM

PROJECTS

OFFLINE PRIVACY-CENTRIC VOICE JOURNAL WITH EMOTION-AWARE REFLECTION SEP - DEC 2025

(IEEE ICECA 2025 Research Paper)

- Developed an offline voice journaling application with emotion-aware reflection
- Implemented on-device speech processing ensuring privacy and low latency
- Published in IEEE ICECA 2025
Github : <https://github.com/Aruna168/Speak2Journal>

INTELLIGENT FLOATING WATER MONITORING & POLLUTION DETECTION SYSTEM ONGOING (2026)

- Designing an IoT-based floating sensor system for real-time water quality monitoring
- Implementing data logging and alert mechanisms using **GPS and GSM modules**
- Optimizing system performance for continuous environmental monitoring
Github : <https://github.com/Aruna168AquaSense-IoT>

RAG-BASED MEDICAL KNOWLEDGE ASSISTANT OCT 2025

- Developed a **Retrieval-Augmented Generation (RAG)** system for medical diagnosis using an offline LLM (Mistral)
- Designed a pipeline for document ingestion, embedding-based retrieval, and contextual response generation
- Improved response reliability through domain-specific knowledge integration
Github : <https://github.com/Aruna168/MedRAG-Assistant>

ACHIEVEMENTS

- IEEE Conference Paper - **ICECA 2025**
- First Prize - AIML hackathon at SNS College of Engineering (₹5,000)**
- GATE 2026** Qualified
- Runner-up** - Anna University Zonal Chess Tournament
- Top 50 Team - GreenMind Hackathon (500+ teams)

LEADERSHIP & ACTIVITIES

- Google Gemini Ambassador** - Promoting AI awareness in campus communities
- Organizer - **30-Hour College Hackathon**
- Master of Ceremony** - 36-Hour Computing Departments Hackathon
- Participant - Bharatiya Antariksh Hackathon (ISRO)

INTERNSHIPS

AWS Cloud Computing Intern Placemantra (2 months, Online)

Worked with AWS Management Console and Identity & Access Management (IAM)

Cybersecurity Intern Frontline Technologies, Karur | 15 Days

Learned fundamentals of network security and vulnerability analysis