

Gayathri R

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EDUCATION

Chennai Institute of Technology - Chennai, India

Bachelor of Technology, Computer Science and Business Systems

CGPA: 8.9

Sept 2023 – Sept 2027

EXPERIENCE

Research Intern - Research Paper | Nov 2024 – Dec 2024

Published a research paper titled "AI-Powered Multimedia Complaint Categorization for Indian Railways".

Focused on categorizing textual and multimedia grievances using NLP and computer vision.

Web Development Intern - Octanet Services Pvt Ltd | June 2023 – July 2023

Designed and developed a responsive frontend page for a commercial retail platform using modern UI frameworks.

Optimized user interactions, ensuring seamless performance across devices.

Full Stack Web Development Intern - Innovate Internships Pvt Ltd | May 2023 – June 2023

Developed **CommerceCraft**, a comprehensive full-stack e-commerce framework.

Integrated user authentication, product management, and payment gateway support.

Hackathons & Competitions

Smart India Hackathon 2024: Built *Rail Madad 2.0*, an AI-powered grievance redressal system; secured **National Winner** title.

UYIR Road Safety Hackathon: Reached pre-finals with a data-driven accident prevention system.

SDG Hackathon: Designed an AI-based recruitment system with automated interview scheduling and a career guidance chatbot.

IEEE Hackathon: Developed an education-focused tech solution addressing accessibility and engagement gaps

TECHNICAL PROJECTS

LenDen2.0 | Stacked Ensemble Model, AWS SageMaker, API Gateway, Lambda

- Built an income prediction engine for underserved segments using an ensemble of Ridge, LightGBM, and XGBoost models.
- Engineered behavioural features from scheme enrolment, EMI patterns, and asset proxies, achieving an **R² score of 0.95+**.
- Deployed the model using AWS SageMaker, integrated with Lambda and API Gateway for real-time, serverless inference

Rail Madad 2.0 | Next.js, Material UI, Express.js, LLM FineTuning

- Developed for Smart India Hackathon 2024, AI-powered Grievance Management system.
- Utilized Machine Learning for automated complaint categorization and smart routing, reducing response time and improving issue resolution.
- Worked on the frontend using Next.js and Material UI, ensuring a seamless and user-friendly experience.
- Designed an interactive and dynamic form layout to efficiently collect and manage passenger grievances.

Dashboard for Railway Admin | React.js, Tailwind CSS, Django, Pandas, Matplotlib

- Developed for **Smart India Hackathon 2024**, this dashboard provides data-driven insights for railway complaint management.
- Integrated real-time data visualization using Matplotlib and Pandas to display complaint trends and resolution statistics.
- Designed an interactive admin panel with role-based access to view, filter, and analyse complaints effectively..

CERTIFICATIONS

- Database Management systems – **NPTEL**
- Cloud Computing - **NPTEL**
- Parallel Computer Architecture - **NPTEL**
- Cybersecurity Essentials – **Cisco**

PLATFORMS

- Won **Smart India Hackathon 2024**
- Solved **400+** problems solved in **Leetcode**
- Got selected for **Top 25 in Matrix AI Protocol Hackathon Finals**

SKILLS

Languages: C++, Java, Python, JavaScript

Web/Cloud Technologies: React.js, Next.js, Node.js, Django, React Native, MySQL, MongoDB, PostgreSQL, WebRTC

Dev Tools & Platforms: Git, GitHub, VS Code, AWS, Google Cloud Platform, Docker, Kubernetes

Core Concepts: DSA, DBMS, OS, CN, Software Engineering, Cloud Computing

ACHIEVEMENTS

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