

Chanda Charan Reddy

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GitHub · LinkedIn · Portfolio

Professional Summary

Full-stack and AI engineer with a Springer-published deep-learning paper (97% accuracy) and production experience building LLM-powered systems at Infineon. Fluent across the modern web stack – React/Next.js, Node.js, and cloud infrastructure – with deep applied work in LLMs, RAG, and multimodal pipelines. Builds reliable, well-architected products that turn complex AI capabilities into usable, production-ready software.

Education

- | | |
|---|------------------------|
| B.Tech in Computer Science (Data Science)
Christ University, Bengaluru | 2022 – 2026(Graduated) |
| <ul style="list-style-type: none">CGPA: 8.9/10Relevant Coursework: Data Structures & Algorithms, Machine Learning, Database Management, Software Engineering, Statistics | |
| Senior Secondary (Intermediate)
Sri Chaitanya College | 2020 – 2022 |
| <ul style="list-style-type: none">Percentage: 80.5% | |

Professional Experience

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| AI Engineer Intern, Bengaluru, India
Infineon Technologies | Mar 2026 – Present |
| <ul style="list-style-type: none">Built an LLM-powered system that converts text and image inputs into structured BPMN workflow diagrams, automating a previously manual modeling process.Architected scalable backend services for multimodal data ingestion and structured workflow generation.Designed and shipped REST APIs that embed AI-driven workflow generation directly into enterprise applications.Increased output accuracy and reduced response latency through targeted prompt engineering and inference-pipeline optimization.Streamlined inference and request handling to improve throughput and reliability under production load. | |
| Software Developer Intern, Bengaluru, India
IMPRESSNO SOLUTIONS | Apr 2025 – Jan 2026 |
| <ul style="list-style-type: none">Diagnosed platform performance bottlenecks through usage-metric analysis, driving a 28% improvement in page-load speed.Improved product discoverability and checkout conversion by integrating Algolia-powered search and Stripe payments.Designed automated bulk data-linting workflows that raised data accuracy and eliminated hours of manual processing.Implemented API-level logging and monitoring dashboards (Firebase + custom tooling), giving the team real-time visibility for product decisions.Owned end-to-end automation of recurring data-quality tasks, cutting manual effort and freeing engineering time for feature work. | |
| Research Intern, Bengaluru, India
Defense Research and Development Organization (DRDO) | May 2024 – Jun 2024 |
| <ul style="list-style-type: none">Engineered and validated digital control algorithms for aero-engine systems, applying advanced signal and data processing to improve performance and reliability.Authored and executed comprehensive test suites for safety-critical systems, meeting aerospace compliance standards and cutting validation cycle time by 15%.Collaborated with cross-functional design, manufacturing, and QA teams to deliver multi-disciplinary work within strict quality and certification requirements. | |

Technical Skills

- **Programming Languages:** Python, C, TypeScript, JavaScript, SQL
- **Frontend:** React.js, Next.js, Tailwind CSS
- **Backend:** Node.js, REST APIs, Microservices Architecture
- **Databases:** PostgreSQL, MongoDB, MySQL
- **AI/ML:** LLMs, LangChain, RAG Systems
- **Cloud & DevOps:** AWS (EC2, S3), Firebase, Docker, Postman, Git/GitHub

Key Projects

Prepify – AI-Powered Interview Preparation Platform 2025

- Built an end-to-end AI platform unifying voice-enabled mock interviews, resume analysis, coding challenges, and personalized career guidance in a single product.
- Engineered a real-time voice interface with WebRTC and the OpenAI API on a Firebase backend for natural, interactive practice sessions.
- Cut user preparation time by 40% by consolidating fragmented tools into data-driven, adaptive learning paths.
- **Tech Stack:** Next.js, TypeScript, Firebase, OpenAI API, WebRTC, Amazon S3, Vercel

MeetEase – Smart Meeting Scheduler 2024

- Developed a full-stack video-conferencing application with real-time calls, screen sharing, and virtual backgrounds powered by the Stream SDK.
- Integrated AI capabilities – live transcription, sentiment analysis, and automated meeting summaries – directly into the call experience.
- Secured the platform with Clerk authentication and shipped through a Vercel CI/CD pipeline, improving performance by 30%.
- **Tech Stack:** Next.js 14, TypeScript, TailwindCSS, Stream SDK, AI APIs

RAG-based ERP Query Assistant 2024

- Built a Retrieval-Augmented Generation system for enterprise document querying using LangChain, FAISS, and the OpenAI API.
- Delivered accurate, context-aware answers to complex ERP queries, reaching 90% retrieval accuracy.
- Accelerated enterprise data access by pairing generative AI with vector-based semantic search.
- **Tech Stack:** LangChain, FAISS, OpenAI API, Python, PostgreSQL.

Research & Publications

Lung Disease Detection and Classification with Improved Deep Learning Model 2025

Published in Springer

- Designed and published a hybrid ResNet50 transfer-learning model for automated detection of COVID-19, tuberculosis, and pneumonia from chest X-rays.
- Achieved 97.18% classification accuracy, outperforming baseline architectures and improving diagnostic reliability.
- Contributed an AI-driven screening approach aimed at consistent, scalable medical imaging in real-world clinical settings.

Leadership & Achievements

- **1st Place** – ICE Tech 2025 (15,000 prize)
- **Department Head, CSE Student Body** – led initiatives for 400+ students
- **Media & PR Lead** – Industry-Institute Interaction Cell
- **Student Council Head**
- **3rd Place** – TECH X CSE Quiz