

SHREYAS K N

Coimbatore, Tamil Nadu

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Education

Dr. N.G.P. Institute of Technology

Bachelor of Engineering in Computer Science and Engineering

Sep 2023 – May 2027

Coimbatore, Tamil Nadu

Technical Skills

Languages: Python, Java, JavaScript, SQL, Go

AI / ML: LLMs, RAG, LangChain, Vector Databases

Databases & API: MySQL, MongoDB, FastAPI, ExpressJS, SpringBoot

Cloud & DevOps: AWS, Azure, Docker, Terraform

Web Development: HTML/CSS, Chrome Extensions, React, Tailwind CSS

Tools: Git & GitHub, VS Code, Notion, Blender, n8n, Figma

Experience

Gateway Solutions

Jun 2025

AI / ML Intern

Coimbatore, Tamil Nadu

- Built an NLP-based sentiment analysis system for YouTube comments
- Experimented with OpenAI APIs for prompt-based text analysis.
- Implemented a basic Retrieval-Augmented Generation (RAG) pipeline using vector embeddings.
- Stored and queried embeddings using a vector database for contextual retrieval.

Centillion Labs

Sep 2025 – Oct 2025

LLM Security & Cloud Intern

Coimbatore, Tamil Nadu

- Designed and implemented an AI red teaming pipeline called **Valerie** to evaluate LLM endpoints using adversarial prompts.
- Generated adversarial prompts using a jailbroken LLM (Mistral) across multiple techniques and domains.
- Tested multiple LLM endpoints and produced structured vulnerability reports.
- Worked with AWS and Azure AI services to understand cloud-based LLM deployments.
- Used Terraform to provision cloud resources for controlled AI security testing.

Projects

Disaster Connect

ESP32, Mesh Networking, Embedded Systems

- Developed an ESP32-based mesh communication system for disaster scenarios where traditional networks fail.
- Each node exposes a local hotspot allowing users to submit critical information via a mobile app.
- Nodes relay messages through the mesh to a root node for centralized aggregation.
- Built a web dashboard for authorities to view and act on collected data.
- Enabled battery-powered standalone operation for field deployment.

Voice-Controlled AI Browser Companion

Chrome Extensions, LiveKit, LangChain, Gemini

- Built an accessibility-focused Chrome extension enabling voice-based web navigation.
- Streamed real-time audio, metadata, and screenshots using LiveKit.
- Processed voice and visual context using LangChain and Gemini to infer user intent.
- Executed DOM-level browser actions via a bidirectional data channel.
- Provided screen descriptions and interactive assistance for visually impaired users.

YouTube Analytics Dashboard

JavaScript, HTML/CSS, YouTube Data API

- Built a customizable dashboard allowing users to log in with YouTube and view analytics.
- Integrated Google OAuth and YouTube Data APIs for secure data access.
- Implemented draggable, tile-based UI components for personalized layouts.
- Visualized engagement metrics using interactive charts.