

R SRIDARSH

Ambitious and Self-Motivated Computer Science Engineering Undergraduate

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WORK EXPERIENCE

AI Engineering Intern | Internship

May 2026 - Jun 2026

LRDE, DRDO

On-site • Bengaluru, Karnataka

- Co-developed RD-ViT, a hybrid CNN-Vision Transformer for the joint detection and localization of small marine targets in sea clutter, utilizing a donor-target transplantation training scheme to ensure gate-agnostic localization.
- Achieved a 97.3% detection probability and 87.6% exact range-gate localization (90.2% within ± 1 gate) with zero false alarms, using under 0.8M parameters per head—an order of magnitude smaller than comparable detectors.

Technologies / Skills Used : Range-Doppler maps, IPIX radar datasets, CNN, Transformer

Research Intern | Internship

May 2025 - Jun 2025

Chennai Institute of Technology

On-site • Chennai, Tamil Nadu

- Proposed a hybrid machine learning framework using Random Forest and MLP models to mitigate noise in NISQ-era quantum circuits, achieving a test MSE of 0.0000476 and outperforming traditional Zero Noise Extrapolation methods.
- Implemented a Soft Actor-Critic (SAC) reinforcement learning agent within a digital twin simulation to optimize sustainable greenhouse climate control, successfully reducing water and energy consumption by 20-30%.

Technologies / Skills Used : Quantum Computing, Reinforcement Learning

Software Development Intern | Internship

Nov 2024 - Dec 2024

ADE, DRDO

On-site • Bengaluru, Karnataka

- Engineered a C++/MFC video analysis application using OpenCV to extract UAV flight telemetry and payload metadata, serializing parameter data into structured XML files.
- Developed a specialized C++ desktop search engine to parse XML DOM trees, allowing rapid parameter-based queries to retrieve precise video clips.

Technologies / Skills Used : C++, MFC, XML DOM, OpenCV

PROJECTS

Agentic RAG Cybercrime Threat Triage System | Github

Jun 2026 - Jul 2026

Developer

- Engineered** a local Agentic RAG architecture using **LangGraph**, **ChromaDB**, and **Llama 3.2** to semantically search and classify active financial fraud and smishing payloads.
- Developed** a **FastAPI** backend with self-correcting agent nodes to instantly generate context-aware emergency mitigation steps and technical SOC threat assessments.

Technologies / Tools Used : Python, LangGraph, ChromaDB, Llama 3.2, FastAPI

AI-Based Student Dropout Prediction & Counselling System | Github

Jan 2026 - Feb 2026

Developer

- Built** a hybrid ML + Agentic AI system to predict student dropout risk using academic, financial, and behavioral features.
- Deployed** a Random Forest model via **FastAPI** for real-time inference.
- Implemented** multi-agent orchestration (Explanation + Counselling agents) to generate explainable insights and personalized academic intervention strategies.

Technologies / Tools Used : Python, FastAPI, ML, Agentic AI, OpenAI SDK

Redaxel – Automated Data Anonymization Pipeline | Github

Mar 2025 - Apr 2025

Developer

- Architected an automated data privacy and anonymization pipeline using Microsoft Presidio NLP to detect and redact sensitive personally identifiable information (PII).
- Developed an interactive Streamlit user interface to process incoming unstructured datasets, ensuring data compliance and privacy-first processing workflows.

Technologies / Tools Used : Python, Presidio NLP, Streamlit, NLP, Data Anonymization

AI Customized Tour Planner | Github

Nov 2024 - Dec 2025

Developer

- Integrated the **OpenAI API** using structured prompt engineering to dynamically generate multi-day, personalized travel itineraries based on budget, travel pace, and user preferences.
- Built a web application using React and Firebase to render AI-generated plans, leveraging Google Places and Maps APIs for interactive location mapping and destination details.

Technologies / Tools Used : REACT, FIREBASE, JAVASCRIPT, API

SKILLS

Databases :	MongoDB, ChromaDB, SQL
Frameworks & Libraries :	React JS, Langchain, LangGraph, FastAPI, MCP, TensorFlow, OpenCV, Open AI SDK, Tailwind CSS
Programming Languages :	C++, Python, JavaScript, Java, SQL
Soft Skills :	Project Management, Agile Leadership, Problem Solving, Public Speaking, Presentation, Talent Acquisition, Communication, Teamwork, Leadership, Critical Thinking
Tools & Platforms :	GitHub, Git, Superbase, GitHub Actions (CI/CD), ServiceNow, Claude, Cursor, Ollama, Firebase

EDUCATION

Anna University, Chennai Institute of Technology | Chennai, Tamil Nadu

Aug 2023 - May 2027

Bachelor of Engineering in Computer Science and Engineering

CGPA : 8.94/10

AWARDS & ACHIEVEMENTS

2 Star Coder in Code Chef, Finalist in Tech Hackathon 2025 (St. Joseph College). Finalist in Electrothon, Pre-Final Round in SAP Hackfest, Basketball zonals Runner-Up

CERTIFICATIONS

Introduction to C++ Udemy, The Data Science Course: Complete Data Science Bootcamp - Udemy, AI Engineering Agent Track- Udemy, Master GIT and GITHUB- Udemy, The Complete 2024 Web Development Boot Camp- Udemy, CSA- ServiceNow, CAD- ServiceNow, Parallel Computing – NPTEL, Cloud Computing- NPTEL, Ethical Hacking- NPTEL.