

ARNAV TRIVEDI

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EDUCATION

Vellore Institute of Technology (VIT), Vellore

B.Tech in Computer Science

September 2022 – Present

CGPA: 8.02 — Vellore, Tamil Nadu

Delhi Public School, Ranchi

Higher Secondary Education – CBSE

April 2019 – March 2021

Percentage: 92.8% — Ranchi, Jharkhand

SKILLS

Languages: Python, Java, JavaScript, HTML, CSS

Technologies/Frameworks: ArchLinux, Git, GitHub, ReactJS, NodeJS, ExpressJS, MongoDB, Postman, Thunder Client, LangChain, LangGraph

Soft Skills: Leadership, Event Management, Writing, Public Speaking

EXPERIENCE

Software Developer Intern and QA Tester | CivilBrain.ai

April 2025 – Present

- Built an MCP server that wraps APIs, auto-parses docs, and generates tools for chatbot-database interactions.
- Developed an Excel parser to extract structured data from messy spreadsheets.
- Applied 4+ LLMs with LangChain/LangGraph to improve Gen AI field mapping accuracy.
- Tested 15+ website features, reported 30+ edge-case bugs, and tracked fixes with weekly QA reports.

PROJECTS

Chatbot using LangChain and LLaMA2 | Python, LangChain, LLaMA2, Ollama

March 2025 – April 2025

- Built a local chatbot using LangChain and LLaMA2 with 90% response accuracy in testing.
- Created modular prompt chains with memory to handle multi-turn queries and follow-ups.
- Used Ollama to deploy open-source LLMs offline, enhancing privacy and reducing latency by 30%.
- Tested with 100+ sample queries to ensure consistency, relevance, and conversational coherence.

Notes App using MERN Stack | MongoDB, Express.js, React.js, Node.js, JWT, Axios, TailwindCSS

January 2025 – March 2025

- Engineered a **secure and scalable notes application** with seamless user authentication and data persistence.
- Implemented **JWT-based authentication**, significantly reducing unauthorized access attempts by **95%**.
- Optimized API endpoints and database queries, improving **response times by 40%** for a smoother user experience.

Contacts Manager API with JWT Authentication | JavaScript, Node.js, Express.js, MongoDB

September 2024 – October 2024

- Designed a **scalable RESTful API** to efficiently manage extensive contact records with full CRUD functionality.
- Configured AES encryption, strengthening data security and safeguarding sensitive information.
- Minimized API failures by **70%** through comprehensive input validation and structured error handling.
- Accelerated **query performance** by leveraging Mongoose ORM indexing for smooth data retrieval.

Machine Learning Fundamentals | Python, Scikit-learn, Pandas

January 2024 – February 2024

- Developed and evaluated **10+ machine learning models**, improving prediction accuracy by **20%**.
- Conducted **Exploratory Data Analysis (EDA)** on **1M+ records**, uncovering key patterns and insights.
- Maintained version-controlled documentation on GitHub, ensuring **100% reproducibility** and seamless collaboration.

ACTIVITIES

IEEE Professional Communication Society (IEEE-PCS), VIT Vellore

April 2023 – Present

General Secretary

- Led recruitment, increasing member engagement by **40%** and fostering a **collaborative environment**.
- Organized **10+ technical workshops**, **5+ speaker sessions**, and multiple networking events, benefiting **500+ students**.
- Managed outreach and marketing, boosting event participation by **60%** through strategic promotions.

CERTIFICATIONS

Supervised & Unsupervised Machine Learning – Andrew Ng, Coursera

Python for Data Science – Udemy

Microsoft Azure AI 900 – Microsoft