

ARNAV TRIVEDI

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EDUCATION

Vellore Institute of Technology (VIT), Vellore

B.Tech in Computer Science

09/2022 – Present

CGPA: 8.02 — Vellore, Tamil Nadu

Delhi Public School, Ranchi

Higher Secondary Education – CBSE

04/2019 – 03/2021

Percentage: 92.8% — Ranchi, Jharkhand

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks: React.js, Node.js, Express.js, Django, Mongoose

Databases: MongoDB, PostgreSQL

Tools: Git, GitHub, Postman, Thunder Client, Docker, Web Speech API, TailwindCSS

OS: Arch Linux, HyprLand, Wayland, Windows, Ubuntu

PROJECTS

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

- 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%**.
- Integrated **audio-to-text transcription**, enabling hands-free note-taking and improving accessibility.
- 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*

- 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.

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

- Engineered a context-aware **chatbot** leveraging **LangChain** and **LLaMA2** via **Ollama**, enabling fluid and intelligent conversational flows.
- Architected modular **LangChain chains** with **prompt templates** and **memory components** to support multi-turn interactions.
- Demonstrated seamless deployment of **open-source LLMs** for offline usage, emphasizing **privacy-first** and scalable chatbot design.

Machine Learning Fundamentals Project | *Python, Scikit-learn, Pandas*

- Developed and **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.

EXTRACURRICULAR

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

04/2023 – 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 AI Classroom – Microsoft

5-Star C++ – HackerRank