ARNAV TRIVEDI

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EDUCATION

Vellore Institute of Technology (VIT), Vellore   **September 2022 – Present**
B.Tech in Computer Science   *CGPA: 8.02 — Vellore, Tamil Nadu*

Delhi Public School, Ranchi   **April 2019 – March 2021**
Higher Secondary Education – CBSE   *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**
- Partially built an Excel parser to extract structured data from complex, messy spreadsheets.
- Used 4+ LLMs with LangChain/LangGraph to improve Gen AI field mapping accuracy.
- Tested 15+ website features and reported 30+ edge case bugs during functional QA analysis.
- Collaborated with developers on bug resolution progress and compiled weekly QA status 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