ARNAV TRIVEDI

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EDUCATION

Vellore Institute of Technology, Vellore   **Graduated: 2026**
B.Tech in Computer Science and Engineering   *CGPA: 7.8 / 10*

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS
Frameworks: React.js, Node.js, Express.js, Streamlit, LangChain, LangGraph
Databases: MongoDB, PostgreSQL, Supabase, MySQL
Tools & Platforms: Git, GitHub, Postman, Thunder Client, Azure, Docker
Libraries: NumPy, Pandas, Scikit-learn, PyTorch

EXPERIENCE

Software Developer Intern   **April 2025 – September 2025**
CivilBrains.ai
- Architected an MCP server and API tooling to enable chatbot-to-database integrations, improving automation in data workflows.
- Built and deployed an Excel parsing pipeline that converts unstructured spreadsheets into normalized datasets for analytics and reporting.
- Integrated and evaluated 4+ large language models using LangChain and LangGraph to improve GenAI field-mapping accuracy and tooling.
- Led QA cycles across 15+ features, reported 30+ defects, and collaborated with engineers to prioritize fixes and stabilize releases.

PROJECTS

Leather Defect Classification System | *Python, PyTorch, Streamlit, Scikit-learn*   **September 2025 – November 2025**
- Engineered an AI-powered defect detection model employing PlainCNN and Hybrid CNN architectures.
- Formulated a modular training pipeline featuring data augmentation, validation, and performance visualization in PyTorch.
- Deployed trained models within a Streamlit web app to enable real-time image upload and inference.
- Enhanced classification reliability by integrating a NotLeather detector, attaining 85% validation accuracy.

Chatbot using LangChain and LLaMA2 | *Python, LangChain, LLaMA2, Ollama*   **March 2025 – April 2025**
- Constructed an offline chatbot leveraging LangChain and LLaMA2, achieving 90% response accuracy in evaluation.
- Structured 4 adaptive prompt chains with memory modules, minimizing ambiguous responses by 20%.
- Implemented local LLM deployment via Ollama, improving privacy controls and lowering latency by 30%.
- Verified model consistency using 100+ evaluation queries to ensure contextual precision and coherence.

Notes App using MERN Stack | *MongoDB, Express.js, React.js, Node.js, JWT, Axios*   **January 2025 – March 2025**
- Devised a secure, scalable notes platform supporting seamless authentication and persistent data storage.
- Integrated JWT-based authorization to block unauthorized access, improving application security by 95%.
- Optimized backend endpoints and query handling, reducing API latency by 40% and elevating user responsiveness.

LEADERSHIP & ACTIVITIES

General Secretary   **January 2025 – March 2025**
IEEE-Professional Communication Society
- Directed chapter operations and led recruitment drives that increased engagement by 40%.
- Coordinated 10+ workshops and 5 speaker sessions impacting over 500 students.
- Managed a 10-person marketing team, driving 60% higher event participation.

CERTIFICATIONS

- Supervised & Unsupervised Machine Learning – Andrew Ng, Coursera
- Python for Data Science – Udemy
- Microsoft Azure AI 900 – Microsoft