Janani N

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Education

M.Sc Artificial Intelligence and Machine Learning (Integrated) *2021 – 2026*
Coimbatore Institute of Technology, Coimbatore
CGPA: 9.15 (till 7th sem)

XII (Higher Secondary ,State Board) *2021*
CEOA Matric Hr Sec School, Madurai
Percentage: 90.86%

Technical Skills

Languages	Python, C, SQL, R
Tools	Alteryx, VS Code, MS Excel, Power BI, Git, GitHub
Libraries	OpenAI, NLTK, Scikit-learn, OpenCV, Hugging Face
Frameworks	PyTorch, TensorFlow, LangChain, Agentic Workflows, RAG
Data Techniques	Data Cleaning, Exploratory Data Analysis (EDA), Feature Engineering, Regex

Work Experience

EY (Ernst & Young) - *CrewAI, RAG, LLM, LangChain, Azure OCR* **Jun 2024 – Nov 2024**
Assurance AI Intern *Chennai, India*

- Developed AI-driven backend systems for real-time stock monitoring and audit workpaper summarization, improving compliance accuracy and reducing manual effort by 50%.
- Streamlined data processing workflows with AI agent integrations, accelerating data analysis and increasing throughput of audit workpapers by 25% while improving accuracy.
- Collaborated with cross-functional teams to design and validate features, ensuring high-quality and reliable deliverables.
- Managed workflows for 15+ clients, maintaining consistent service quality and timely project delivery.

Projects

SQLI Sentinel | *Python, Transformers, GAN, Diffusers*

- Built a BERT-based SQL injection detection system achieving 86% accuracy using curated attack patterns.
- Created 3D visualizations with Plotly and NetworkX, improving anomaly detection by 40%.
- Integrated GAN-based adversarial query generation, voice-to-SQL, and a browser honeypot simulating 10+ attack scenarios.

Smart Invoice Parser | *Python*

- Implemented an ML model using OCR and NLP to extract key invoice details from scanned PDFs and digital formats with 90% accuracy.
- Processed over 400 invoice templates, boosting extraction accuracy and lowering the need for manual fixes.
- Achieved a low model loss of 0.12, ensuring high precision and minimizing extraction errors.

Achievements

- Winner of SIH 2023 Internal Hackathon, recognized for innovative solution development.
- Finalist at Nexus National Level Hackathon
- Active participant and presenter of research paper "GenAI's Artistic Endeavours" at Technical Symposium Melinia.

Publications

Deep Fake Detection Using Deep Learning **Dec 2023**
Published in International Journal for Science and Advanced Research in Technology (IJSART) *Volume 9, Issue 12*

Organizational Experience

- Internship Coordinator, Dept. of AIML, CIT – Coordinated 6-month internships for 7th-semester students (Dec 2023 – Apr 2024).
- Event Head, Melinia 2025 Symposium — Led flagship inter-college hackathon event (Mar 2025).

Areas of Interest

• Machine Learning • Deep Learning • Generative AI • Large Language Models • Full Stack Development • Data Analysis