

MICHAEL JONE



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PROFESSIONAL SUMMARY

Data Science professional with 1.3 years of hands-on experience building AI and machine learning (ML) solutions that deliver measurable business outcomes. Proven track record of developing anomaly detection systems processing 6+ million records with 85% accuracy, creating synthetic data frameworks maintaining 90% fidelity, and building AI-powered applications that reduce operational workload by up to 70%. Recognized with Platinum Award from Business Unit leader for exceptional technical contribution and measurable business impact on AI anomaly detection system. Skilled in Python, SQL, and modern AI technologies including LLMs, RAG systems, and computer vision. Experience collaborating across cross-functional teams to deliver 15+ automation reports and integrate AI-driven insights into existing business processes.

EXPERIENCE

Associate Software Engineer at CGI, Bangalore

April 2024 - Present

- Developed an unsupervised anomaly detection system on synthetic payroll data (>6M salary records), achieving **85% accuracy** and **80% recall** in identifying irregular salary changes and outliers.
- Led the creation of a synthetic data generation framework for privacy-preserving analytics, maintaining **90% data fidelity** while enabling secure model development and cross-team collaboration.
- Designed and deployed **AI-powered Applicant Tracking System (ATS) using Agentic AI** capable of generating job descriptions, resume scoring, candidate ranking, and shortlisting processes, reducing recruiter workload by **70%**.
- Built a **Natural Language to SQL (NL2SQL)** interface using LLMs to convert business queries into executable SQL, increasing reporting productivity by **30%** and reducing manual query overhead.
- Engineered a **hybrid RAG-LLM chatbot** to deliver intelligent FAQ support, filling critical application gap and enhancing customer support automation.
- Implemented a voice-to-text transcription system using **OpenAI Whisper ASR** model for automated testimonial transcription, reducing manual effort by **60%** and enhancing content accessibility.
- Developed a hybrid recommendation engine (collaborative + content-based filtering) for an e-commerce platform, improving product relevance and boosting engagement by **20%**.
- Collaborated with cross-functional teams (data scientists, PMs, and stakeholders) within **sub-business unit** to integrate AI-driven insights, delivering **15+ business-aligned automation reports**.

SKILLS

- Programming and Query languages** : Python, R, SQL (MySQL)
- AI/ML Technologies**: Large Language Models (LLM), RAG, Agentic AI, OpenAI Whisper ASR, Microsoft Azure AI Foundry
- Specializations**: Machine Learning, Natural Language Processing(NLP), Computer Vision, Data Analysis, Statistical Modeling, MLOps
- Tools**: GitHub, Tableau, Microsoft Office (Excel, PowerPoint), Power BI

EDUCATION

- 2021 - 2023 **Master of Science (Data Science)** at St. Joseph's college, Trichy. (CGPA : 7.85 / 10)
- 2018 - 2021 **Bachelor of Science (Mathematics)** at Loyola College, Chennai. (CGPA : 7.11 / 10)

PROJECTS

- Smart Attendance System with Facial Recognition** - Developed computer vision-based system for automated attendance tracking using facial recognition algorithms, deep learning(DL) and real-time processing
- Mental Health Analysis During Lockdown** - Built machine learning model to analyze student mental health patterns during COVID-19 lockdown using statistical modeling and predictive analytics

CERTIFICATIONS & ACHIEVEMENTS

- Received **Platinum Award** from Business Unit leader for exceptional work on AI anomaly detection system , recognizing outstanding technical contribution and measurable business impact
- Earned **Google Data Analytics Professional Certificate** (Coursera) - Advanced proficiency in data analysis, visualization, and statistical modeling
- Distinguished as **Best Volunteer Award** recipient by Service Learning Department, Loyola College, Chennai, for exceptional leadership in cross-functional team management