Yash Vijay Mali

214-475-4785 | yashmali597@gmail.com | linkedin.com/in/yash-v-mali

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EDUCATION

The University of Texas at Dallas   *May 2027*
Master of Science, Information Technology and Management   *GPA : 3.75/4.0*
Honor: Program Excellence Scholarship (awarded to the top 0.1% of the incoming batch)

Vishwakarma Institute of Technology , India   *May 2024*
Bachelor of Technology, Instrumentation Engineering   *GPA : 8.77/10.0*

SKILLS

- **Programming:** Python, SQL, C#, JavaScript, TypeScript
- **AI & Machine Learning:** ML Models, LLMs (GPT, Claude-style models), Prompt Engineering, Agentic Workflows, GenAI POC Development, AI API Integration, Rapid Prototyping, Workflow Automation
- **Product & Analysis:** Product Strategy, Requirements Gathering, User Stories, Feature Prioritization, KPI Tracking, Product Analytics, Experimentation
- **Frameworks & Tools:** PyTorch, TensorFlow, scikit-learn, OpenCV, LangChain
- **Data & Analytics:** EDA, Predictive Modeling, A/B Testing, Behavioral Analysis, Power BI, Tableau
- **Deployment:** FastAPI, REST APIs, Azure DevOps CI/CD, Docker

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PROFESSIONAL EXPERIENCE

Emerson Co. , Pune, India   *January 2024 – July 2025*
Graduate Engineering Trainee

- Engineered automated ETL data migration pipelines to transfer operational records across three legacy enterprise platforms into a modern analytics environment using C# and .NET, reducing manual errors by 60%
- Developed protocol-aware data conversion workflows for industrial telemetry standards such as MODBUS and HART, maintaining over 90% data integrity for downstream Predictive Modeling and analytics
- Built an internal AI-powered analytics assistant using Python, OpenAI LLM APIs, and Prompt Engineering techniques to automate enterprise knowledge retrieval, reducing information-access time by 45%
- Automated end-to-end data ingestion, model execution, and deployment workflows using REST APIs and Azure DevOps CI/CD pipelines, minimizing manual intervention across production ML environments
- Implemented 15+ validation and monitoring rules based on system log analysis to improve data reliability
- Collaborated with product, engineering, and business stakeholders to define data quality KPIs and design 150+ test scenarios, ensuring alignment with business requirements

Wizphys AI, Pune, India   *June 2023 – December 2023*
Deep Learning Intern

- Built and evaluated deep learning models using PyTorch and TensorFlow for behavioral prediction tasks, improving model performance by 15%
- Translated user requirements into ML-driven product features using user engagement analytics
- Supported experimentation workflows using user-level Behavioral Analysis and A/B Testing, improving downstream engagement by 18%

PROJECT EXPERIENCE

AI-Enabled Customer Segmentation & Churn Prediction System (Link)

- Analyzed 100K+ customer records to identify behavioral segments and churn risk using EDA and predictive modeling
- Built analytics workflows to generate next-best-action recommendations, improving targeted retention by 12%

AI Causal Intelligence System (Link)

- Analyzed 100K+ user A/B simulation outcomes to identify high-impact segments using causal inference
- Built an uplift-based targeting system for budget optimization, simulating $684K+ incremental revenue over probability-based methods

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ACHIEVEMENTS

- Secured 3rd Place at Agent-a-thon sponsored by Celonis, developing an AI-driven process optimization prototype