

Yash Vijay Mali

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EDUCATION

The University of Texas at Dallas

Master of Science, Information Technology and Management

Program Excellence Scholarship

May 2027

Vishwakarma Institute Of Technology, Pune, India

Bachelor of Technology, Instrumentation Engineering

Credit Suisse Scholarship for Engineering Students

May 2024

SKILLS

- **Languages & Frameworks:** C#, Python, Typescript, JavaScript, SQL, PySpark
- **Systems & Tools:** Git, Linux, CI/CD (Azure DevOps), Airflow, Databricks Workflows, Kubernetes
- **Cloud Platforms:** AWS, Azure, GCP, Snowflake, Databricks
- **Analytics & ML:** Spark ML, Feature Engineering, Statistical Modeling, KPI Dashboards, Clustering
- **Distributed Systems & Infra:** Microservices, ETL pipelines, event-driven systems, performance debugging

PROFESSIONAL EXPERIENCE

Emerson Co. , Pune, India

January 2024 – July 2025

Graduate Software Engineer Trainee

- Designed and maintained scalable backend data tooling using JavaScript and C#, supporting ingestion from 3+ legacy systems and improving data accuracy by 60%
- Improved system reliability by implementing 15+ validation, monitoring, and error-handling rules, significantly reducing user-reported issues and stabilizing real-time data flows
- Debugged and optimized pipeline performance using logs, metrics, and error traces, improving throughput and reducing end-to-end latency
- Built an internal AI/NLP assistant using Python and Azure ML pipelines, cutting information-retrieval time by 45% and improving response quality through profiling and model tuning
- Automated data ingestion, model execution, and deployment workflows using CI/CD (Azure DevOps), increasing engineering efficiency and reducing release failures

Wizphys AI, Pune, India

June 2023 – December 2023

Deep Learning Intern

- Developed high-throughput preprocessing pipelines enabling training jobs to run 15% faster on large datasets
- Identified bottlenecks in ML workflows and implemented engineering optimizations that improved prediction accuracy by 15%
- Developed and integrated ML-powered personalization features into the product's mobile app, improving user session duration and overall customer engagement by 18%

PROJECT EXPERIENCE

AI Workflow Automation Platform

September 2025

- Built a full-stack web tool using Python, TypeScript, and React to streamline ML workflows, including data processing, annotation, and visualization
- Designed real-time monitoring dashboards to track model training, performance, and reliability metrics, improving workflow efficiency and developer productivity

Customer Segmentation and Purchase Behavior Analysis

October 2025

- Conducted data preprocessing and exploratory data analysis (EDA) on customer transaction records using Python
- Applied K-Means clustering to segment customers based on purchase frequency, spending behavior, and product preferences

ORGANIZATION EXPERIENCE

IEEE Student Branch, VIT Pune, India – Project Head

June 2022 – June 2023

- Led and mentored a 20+ member AI team, organizing hands-on AI/ML workshops for 150+ students to foster technical growth and engagement

ACHIEVEMENTS

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