

# 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**