

# VINAY KAMBHAMPATI

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## WORK EXPERIENCE

### Graduate Teaching Assistant, Illinois Institute of Technology

Aug 2025 - Dec 2025

- Analyzed academic performance data for 35 students using **Excel (Pivot Tables, VLOOKUP)**, tracking attendance, quizzes, and assessments to identify early performance gaps 20% faster.
- Consolidated and cleaned **300+ Canvas LMS** records per term into standardized dashboards, reducing faculty reporting turnaround time by 6-8 hours per evaluation cycle.

### Data Analyst, LTIMindtree

Jul 2022 - Aug 2023

- Designed and automated 15+ dashboards using **Power BI, SQL Server, MySQL, DAX**, used by cross-functional teams to monitor KPIs, reducing recurring manual reporting effort by 40%.
- Owned end-to-end data model design, implementing **Dimensional Modeling, Star Schema** (3 fact, 8-dimension tables) to support enterprise reporting, reducing dashboard refresh latency by 320 ms.
- Conducted statistical analysis on large-scale quality datasets using **Python (Pandas)** and optimized SQL (CTEs, Indexing) to process 250K+ EDI transactions, uncovering defect patterns for risk mitigation.
- Led query performance tuning across **SQL Server** and **MySQL**, improving average data retrieval latency by 420 ms and accelerating analytical workflows.
- Delivered stakeholder-facing KPI dashboards using **Power BI** to 50+ non-technical users, enabling faster interpretation of operational metrics and data-driven decision-making.

### Data Analyst, CUTSO Foods LLP

Nov 2021 - Jun 2022

- Analyzed sales and operations data using **Excel (Pivot Tables, VLOOKUP)** to identify outlet-level demand trends across 8+ locations, enabling data-backed pricing decisions and revenue optimization.
- Built analytical queries using **SQL (MySQL)** to aggregate order, customer, and inventory data across 5K+ monthly transactions, improving reporting efficiency and reducing manual effort by 30%.
- Developed and maintained **Power BI dashboards** tracking revenue, order volume, and delivery KPIs across 8+ outlets, reducing weekly leadership review cycles by 2 hours per review.
- Cleaned, standardized, and validated raw sales datasets using **SQL** and **Excel-based data preparation**, improving data accuracy by 20% and reducing monthly reporting inconsistencies.
- Delivered ad-hoc analyses using **SQL** and **Power BI** to support inventory planning and cost control decisions by identifying demand fluctuations and underperforming outlets.

## EDUCATION

### Illinois Institute of Technology-Master of Science in Information Technology and Management, GPA: 4.0/4.0

Dec 2025

## PROJECTS

### User Churn Prediction – Waze (Machine Learning)

Jan 2026 - present

- Built a predictive ML pipeline using **Python, Pandas**, and **XGBoost** to forecast user churn with 85%+ accuracy on 50K+ records, engineering 15+ features from app behavior data to identify at-risk users and inform retention strategies.

### LinkedIn Data Pipeline (ETL & Warehousing)

Sep 2025-Nov 2025

- Engineered an end-to-end **ETL pipeline** using Proxycurl API, Pentaho, and MySQL with a **Medallion Architecture** (Bronze-Silver-Gold) on **Azure Blob Storage** and Dremio, enabling scalable analytics and **Power BI reporting** on 120+ LinkedIn profiles.

## CERTIFICATIONS

- Google Advanced Data Analytics (Google), IoT & Robotics - Machine Learning (Inmovidu)

## PUBLICATIONS

- "Personalizing Educational Responses with LLMs" – ACM SIGCITE 2025, "AI-Enhanced Digital Literacy" – IGI Global Book Chapter

## SKILLS

**Data Analysis:** SQL, MySQL, SQL Server, Joins, CTEs, Subqueries, Indexing, Ad-hoc Analysis

**Business Intelligence:** Power BI, Tableau, DAX, Dashboard Development, KPI Tracking, Report Optimization, Data Storytelling

**Spreadsheets & Reporting:** Excel, Pivot Tables, VLOOKUP, Power Query, Dashboard Automation, Data Cleaning

**Programming & Tools:** Python, Pandas, NumPy, Statistical Analysis, Predictive Modeling, ETL Pipelines, Azure, Git