

# Vinay Kambhampati

Data Analyst

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## SUMMARY

Data Analyst with 2+ years of experience delivering SQL and Power BI-driven analytics solutions across enterprise IT, retail, and education domains. Proven expertise in dimensional modeling, dashboard automation, and KPI-driven reporting, enabling stakeholders to make faster, data-informed decisions through optimized data pipelines and high-impact visual insights.

## PROFESSIONAL EXPERIENCE

### Graduate Teaching Assistant, Illinois Institute Of Technology

Aug 2025 - Dec 2025

- Supported academic performance tracking for 35 students using **Excel (Pivot Tables, VLOOKUP)** to analyze attendance, quizzes, and assignment scores, reducing manual data compilation effort.
- Analyzed course-level datasets in **Excel** to identify trends between assessments and grades, reducing time to flag early performance gaps by 20% during the semester.
- Consolidated and cleaned **Canvas LMS** exports using **Excel** to organize 300+ assessment records per term, improving clarity and consistency of academic reporting across multiple evaluations.
- Prepared structured academic performance summaries using **Excel dashboards**, reducing faculty reporting turnaround time by 6-8 hours per evaluation cycle through standardized report formats.

### 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, Information Technology and Management

Dec 2025

## PROJECTS

### LinkedIn Data Pipeline

- Developed an automated ETL pipeline using Proxycurl API, Pentaho, MySQL, designing a Medallion Architecture with Azure Blob Storage and Dremio to support scalable analytics and Tableau reporting on 120+ LinkedIn profiles.

### Crop Yield Prediction

- Built end-to-end predictive analytics workflows using Python (Pandas), SQL, XGBoost, processing 50K+ records to forecast crop yields with 87% accuracy, and applied K-Means Clustering to segment 17 regions for data-driven irrigation optimization.

## SKILLS

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

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

**Data Modeling & Warehousing :** Dimensional Modeling, Star Schema, Fact & Dimension Tables, ETL Pipelines, Bronze-Silver-Gold Architecture

**Programming & Analytics :** Python, Pandas, NumPy, Statistical Analysis, Predictive Modeling, K-Means Clustering

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

**Platforms & Tools :** Azure Blob Storage, Dremio, Pentaho, Proxycurl API, REST APIs, Canvas LMS, Git

## CERTIFICATIONS

**Google Advanced Data Analytics**, Google

**IoT & Robotics (Machine Learning)**, Inmovidu

## PUBLICATION

### Personalizing Educational Responses with LLMs, ACM SIGCITE

Authored "Personalizing Educational Responses with LLMs"; accepted for the 26th Annual ACM Conference on Cybersecurity & IT Education, analyzing user preference data to optimize AI adaptability.

### AI-Enhanced Digital Literacy, IGI Global

Co-authored "AI-Enhanced Digital Literacy" (ISBN: 9798337300047), contributing technical research on integrating Generative AI into modern educational frameworks.