

# PRASAD VICHARE

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## EDUCATION

### University of Illinois Chicago

Aug. 2024 – May 2026

*M.S. in Management Information Systems | GPA: 4.0/4.0*

*Chicago, IL*

### University of Mumbai

Aug. 2014 – May 2018

*Bachelor of Engineering in Electronics and Telecommunication*

*Mumbai, India*

## TECHNICAL SKILLS

**Analytics & Visualization Tools:** Tableau, Power BI (DAX), Microsoft Excel, R-Studio, BigQuery, Visio

**Data Science & Cloud:** Machine Learning, LLM, predictive analytics, AWS, ETL/ELT, Data Modeling, CI/CD, Docker

**Programming & Scripting:** SQL, Python, R, Java, Shell

**Database Management Systems:** Microsoft SQL Server, MySQL, Oracle

**Business & Project Management:** Agile, Risk Mitigation, Stakeholder Management, Product Life-cycle Management, Cross-functional Team Leadership, Operation Management, Project Management, Microsoft Office Suite, Linux

## EXPERIENCE

### UI Health - Department of Cardiology

Dec. 2024 - Present

*Secretarial Assistant*

*UIC, Chicago*

- Designed interactive Power BI dashboards using DAX to help the department track profitability, procedure times, and provider performance, making weekly reporting faster and clearer
- Developed and maintained the Department of Cardiology's website using WordPress by keeping content up-to-date and improving site layout to make navigation easier for staff and patients

### Reliance Jio Infocomm Pvt. Ltd

Sept. 2020 -Jul. 2024

*Deputy Manager*

*Mumbai, India*

- Led a cross-functional team of 12 engineers to deploy A2P and P2P SMSC solutions across India, leveraged Python, SQL, and Shell scripts to process 10 M+ daily transactions, improving system reliability by 25%
- Built and managed interactive Tableau dashboards to track KPIs, helping managers make faster decisions and improve day-to-day operational efficiency by 30%
- Created automated data pipelines and reporting scripts using Python, SQL, and AWS, which cut down manual reporting time by 25%
- Worked closely with business teams to plan project goals and timelines, ensuring our tech solutions met both company goals and user needs
- Formulated disaster recovery and data backup strategies, ensuring 99.9% system up-time and minimizing data loss risks

### Quess Corporation

Jan. 2019 - Sept. 2020

*System Engineer*

*Mumbai, India*

- Developed automation tools using Python, Shell scripting, and SQL to eliminate 200+ monthly manual tasks, improving project turnaround time by 15%
- Authored comprehensive troubleshooting guides, reducing support queries by 20% and streamlining issue resolution

## PROJECTS

### Suicide Ideation on Reddit using LLM | *Python, LLM, Prompt-Engineering, ML*

Mar. 2025 - May. 2025

- Analyzed 225 K+ Reddit posts/comments from r/SuicideWatch (2022–2024) using LLM (Google Gemini) to extract emotion and behavior features based on mental health frameworks like DSM-V and C-SSRS
- Developed end-to-end Python pipelines for data cleaning, thread aggregation, and longitudinal emotion scoring, classifying 84K+ users into 'Improved' or 'Declined' emotional states over time
- Performed statistical tests like Chi-Square, T-tests, VIF, and regression models to identify patterns in user emotions, engagement drivers, and coping mechanisms, offering insights for early intervention strategies

### Student Test Score Prediction Using ML | *Python, Git Actions, CI/CD, AWS, Docker*

Nov. 2024 - Dec. 2024

- Explored student performance data using Python (Pandas, NumPy, Matplotlib, Seaborn) to uncover patterns in grades and test results
- Constructed modular pipelines for data pre-processing, ingestion, and model training, achieving 88% accuracy with Linear Regression and benchmarking against other ML models
- Used Docker and AWS (ECR and EC2) to deploy the project, setting up GitHub Actions for smooth CI/CD so updates could be tested and launched faster

### JetBlue Airlines Performance Analysis | *Python(Pandas, Numpy), Tableau, MS Excel*

Aug. 2024 - Oct. 2024

- Investigated airline comparison analysis using Tableau, analyzing 6.5 million flight records for JetBlue Airlines in 2023
- Utilized Python (pandas) for data cleaning and analysis, and designed interactive Tableau dashboards to visualize key metrics and identify patterns in delays and operational inefficiencies

## CERTIFICATIONS

• AWS Academy Data Engineering • AWS Academy Cloud Foundations • Google Data Analytics • DevOps foundation, Docker essentials, and Cloud computing fundamentals - LinkedIn Learning