

# Nandish Shivabasava Bellad

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## PROFESSIONAL SUMMARY

Insight-driven Data Analyst & Emerging Data Scientist with 3+ years converting multimillion-row datasets into actionable revenue lifting insights. Built 10+ predictive models (R-squared up to 0.95) and automated 15+ interactive dashboards—shortening decision cycles 40% company-wide. Advanced in SQL, Python, Data visualization, and data storytelling for C-suite & cross functional teams.

## EDUCATION

### University of Illinois at Chicago

*Master of Science, Management Information Systems*

**Jan 2024 - Dec 2025**

*GPA:- 3.97*

• **Coursework:** Business Data Visualization, Advanced Database Management, Statistics for Management, Health Information Management & Analytics, Business Database Technology, Corporate Finance, Financial Accounting, Project Management

### The National Institute Of Engineering, Mysuru

*Bachelor of Engineering, Mechanical*

**Aug 2017 - Jul 2021**

*GPA:- 3.7*

## SKILLS

- **Programming:** Python (Pandas, NumPy, scikit-learn, PySpark), R, SQL (PostgreSQL, MySQL, Oracle), Java
- **Visualization:** Tableau, Power BI, Matplotlib, Seaborn
- **ML & Statistics:** Regression & Classification, Clustering, Time-Series (Prophet, ARIMA, XGBoost), Feature Engineering, Model Evaluation (MSE, AUC, F1)
- **Data Engineering & Cloud:** AWS (Glue, Redshift, S3, IAM), ETL, Data Warehousing, Git, Snowflake
- **Productivity:** Excel (Power Query, VBA, LOOKUPS, Pivot Tables), Jupyter, VS Code, SQL Server Management Studio

## ACADEMIC PROJECTS

### Quantifying Engagement Drivers for Health Content on YouTube (Gemini LLM, API, Python, Statsmodel, Pandas)

- Pioneered a novel analytical framework to quantify factors driving engagement with mental health content on YouTube and TikTok, addressing the spread of medical misinformation.
- Engineered an end-to-end pipeline using Python (Playwright) for data scraping and deployed Google's Gemini Pro LLM with sophisticated prompts to perform multimodal video analysis, systematically converting unstructured qualitative data into structured JSON for modeling.
- Executed advanced statistical analysis by implementing a Negative Binomial Regression model in Python (statsmodels) to overcome significant data overdispersion and isolate key engagement drivers.
- Delivered critical insights into audience behavior, discovering that videos mentioning suicidal thoughts correlated with a 194% increase in Likes, while content from teenage creators saw a 94% decrease in Likes.

### Predictive Modeling for Chronic Kidney Disease (CKD) (Python, Statsmodel, Pandas, Seaborn, Scikit-learn)

- Engineered a predictive model for early CKD detection using a large-scale national health survey dataset, performing advanced feature selection to identify the most significant predictors.
- Resolved severe class imbalance in the dataset by implementing the SMOTE technique, which dramatically improved the model's recall for positive CKD cases from 15% to 85%.
- Developed a final Logistic Regression model that serves as a more reliable screening tool by significantly reducing false negatives, a critical factor in early disease detection.

### Revenue Optimization & Visualization (Power BI, DAX, SQL)

- Engineered an interactive Power BI dashboard for a five-star hotel chain to analyze historical revenue data and inform strategic decision-making.
- Utilized DAX to build critical hospitality KPIs such as RevPAR, Occupancy Rate, and ADR, and applied data modeling techniques to clean and structure complex datasets.
- Delivered actionable insights on market trends, seasonality, and location performance, directly contributing to pricing optimization and market share recovery.

## WORK EXPERIENCE

### Graduate Teaching Assistant – IDS 410: Business Database Technology

**Aug 2024 - Present**

*University of Illinois at Chicago*

*Chicago, IL*

- Guided 150+ students in SQL, ER-modelling, and database normalization; facilitated planning and execution of course assessments, resulting in a 15% increase in quiz scores.
- Mentored students preparing for the AWS Academy Data Engineering certificate through weekly workshops and hands on cloud lab walkthroughs, helping achieve a 90% cohort pass rate.
- Collaborated with professors to integrate real world datasets and case studies, enhancing course relevance and student engagement.

### Business Operations Analyst

**Oct 2021 - Dec 2023**

*Shiva HP Gas Agency*

*Hubli, Karnataka, India*

- Directed daily operations for an LPG distribution network serving 9000+ households; leveraged order & route analytics to streamline logistics, cutting average delivery time by 18%.
- Built Tableau & Excel dashboards for sales, inventory turnover, and driver KPIs; data-driven insights boosted monthly revenue by 7% and lifted accessory sales by 15%.
- Collaborated with finance and supply chain teams to deploy ARIMA and XGBoost demand forecasts; supported internal project meetings and strategy sessions to improve demand planning accuracy by 25% and reduce stockouts.