

# NILESH CHOUDHARY

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## EDUCATION

### University of Illinois Urbana-Champaign, Gies College of Business

Master of Science, Gies College of Business, 2024

GPA: 3.87/4.0

Champaign, Illinois

Relevant courses: Data science and analytics, Business Intelligence, Consumer analytics, Data storytelling, Enterprise data management, big data analytics in finance, big data platforms, Quanta mental investments

### Dwarkadas J. Sanghvi College of Engineering

Bachelor of Engineering, 2021

GPA: 7.75/10.0

Relevant courses: Logistics & Supply chain management, Operations Research, Economics, Finance, Accounting & Costing

## SKILLS

- Programming Languages: Python, R, C, C++.
- Data analysing/ Visualization/ Reporting: SQL, NoSQL, Data wrangling, Data visualization, Machine learning, Causal inference, Advanced Excel, Tableau, Power BI, SSRS, SSIS, Talend, Knime Analytics, A/B testing, difference in difference, regression discontinuity, ETL.
- Cloud: Amazon Web Services-S3, Redshift, RDS, Lambda, EC2, Google Cloud Platform (GCP), Azure, Apache Spark, Hadoop, MongoDB, Big query

## EXPERIENCE

### Caterpillar

Champaign, Illinois, USA

Data science Team Lead (Business Practicum)

August 2023 - Present

- Oversaw a team of 11 data scientists and analysts in utilizing Lasso regression for variable selection and XGBoost regression for accurate prediction of outbound freight costs and transit times.
- Achieved significant improvements in cost prediction accuracy by Implementing predictive analytics techniques, resulting in a 90% accuracy of outbound freight cost predictions (line haul and fuel price), leading to substantial cost savings.

### Hansa Cequity

Mumbai, India

Data Analyst

August 2021 - August 2023

- Collaborated effectively with cross-functional teams, particularly Data Science and Data Engineering at the client's end from media service, TV satellite, and OTT platform background companies, akin to Netflix, to achieve objectives via ad hoc tasks.
- Developed classification, customer segmentation models using both R and Python, including techniques such as K-means clustering, logistic regression, decision trees, and random forest, to analyze and interpret customer data with their demographics. This helped design targeted campaigns resulting in a 40% increase in customer engagement in the campaigns.
- Utilized predictive modeling techniques such as Lasso and XGBoost to develop forecasting models for customer metrics, such as customer churn, deactivation, and reactivation, which assisted in targeted strategy making and planning. As a result, the customer base grew 10% month on month.
- Developed and managed SQL stored procedures and SSIS jobs proficiently to automate data loading, transformation, and reporting tasks, resulting in a 30% reduction in manual effort and processing time. Additionally, monitored data quality and promptly alerted stakeholders via email about any discrepancies or issues, reducing data errors by 15%.
- Demonstrated expertise in SQL gained through extensive practical experience, resulting in a 25% improvement in query performance with respect to computational power and a 20% decrease in job processing time.
- Leveraged Tableau and Power BI to visualize data at a granular level, selecting appropriate metrics and Key Performance Indicators (KPIs) to provide actionable insights for business decision-makers. This resulted in 50% more segmented and in-depth reports and visuals, increasing efficiency in data-driven decision-making.
- Developed and automated reports using SSRS and BI tools. Iteratively built and prototyped dashboards to provide insights.

### Happy Grub

Mumbai, India

Intern, Marketing, Data Analyst

January 2020 - June 2020

- Leveraged Google AdSense data to enhance the customer experience through in-depth analysis of customer data and a profound understanding of needs. initiative resulted in a remarkable 50% improvement in customer retention.
- Played a pivotal role in streamlining the menu and optimizing marketing campaigns, attaining a significant 30% increase in campaign effectiveness by developing models precisely targeted the most receptive customers.
- Collaborated with Happy Grub to provide essential food services to individuals confined to homes during the COVID-19 pandemic, contributing to community support and well-being during a challenging time.

## COURSES/CERTIFICATIONS

- SQL: Improving Query Performance in PostgreSQL, Exploratory Data Analysis in SQL
- R: Data Manipulation with dplyr, Introduction to the Tidyverse, Intermediate R, Introduction to R for Finance, Intermediate Regression in R, Dimensionality Reduction in R
- GIT: GitHub Concepts
- PYTHON: Hypothesis Testing in Python, Data Manipulation with pandas, Understanding Data Visualization, Introduction to Data Visualization with Seaborn, Working with the OpenAI API