ADI MADAN

Mobile: (312)900-7272 **LinkedIn** **Email:** madanadi0305@gmail.com **Github**

EDUCATION

MS in Management Information Systems, University of Illinois at Chicago — August 2021- May 2023

B.Tech in Electronics and Telecommunications Engineering, University of Mumbai — August 2014- May 2018

TECHNICAL SKILLS

- **Development/Protocols:**Python,SAS, Advanced-SQL, R, Spark,Tableau, Excel,Sharepoint
- **Tools**: Python IDE, MS-SQL Server, Tableau Desktop,Office 365, Oracle PL-SQL, healthcare business model
- **Technical Concepts**: Data Modelling, Data Cleaning and Exploratory Data Analysis, Decision Trees, Regression Models, Cluster Analysis,ETL processes,SQL Window Functions,Joins,PerformanceTuning,Data Warehousing(ETL/ELT)

CERTIFICATIONS

- Google Generative AI — **August 2023**
- Power BI Data Modeling with DAX — **March 2023**
- Tableau 2022 A-Z: Hands on Tableau Training for Data Science — **December 2022-January 2023**

INDUSTRY EXPERIENCE

Business Data Analyst Intern, Wolters Kluwer — **January 2023-May 2023**

- Addressed the need for KPI development and measurement of IT shared services for GBS Team.
- Interviewed the UIC IT Team to get an in-depth understanding about IT processes and ITIL governance policies.
- Identified and implemented 23 KPIs across 6 major IT services such as infrastructure, security and data governance.
- Created PowerBI DAX based dashboards to visualize KPI's and improved efficiency of IT operations by 30%.

Data Analyst Intern, Digital Factory, Chicago, Illinois — **October 2022-December 2022**

- Leveraged Dwell engine data set to analyze customer behavior, unveiling patterns in location visits and customer activity at specific times.
- Developed advanced unsupervised learning models using Python, leveraging powerful DBSCAN and k-means clustering algorithms to achieve exceptional precision of 96% in accurately predicting users' next locations.
- Helped stakeholders target diverse customer groups with appropriate purchase deals and offers from analysis insights.

Software Engineer, Larsen and Toubro Infotech, Mumbai, Maharashtra, India — **July 2018-December 2019**

- Ensured exceptional 99.9% uptime for client operations by proficiently maintaining, troubleshooting, and optimizing web-based, mobile applications, and servers.
- Developed scalable tools to automate tasks done manually using SQL Server, improving efficiency by over 93%, saving over 93-man hours a month.
- Collaborated with stakeholders to provide strategic insights and recommendations by leveraging SQL and Tableau for data analysis, data cubes, and interactive dashboards.
- Performed thorough manual testing of mobile and web applications, meticulously documenting issues and bugs using Excel and Sharepoint resulting in a significant 40% improvement in bug resolution and software quality.

ACADEMIC PROJECTS

Airbnb Price Prediction Analysis — **October 2022-December 2022**

- Examined the need to depict the effect of different variables like amenities, accommodations and locations on the price of Airbnb rentals.
- Developed analysis reports and visualizations using pandas and matplotlib to identify 6 potential cities, 3 property types that generated the most revenue.
- Used Pyspark library in Python to perform the entire analysis hence reducing the processing time by nearly 30s.

Evaluating on-time performance of American Airlines and comparative analysis — **August 2022-October 2022**

- Responsible for tracking on-time airline performance against a set of KPIs, for example, Departure Delay, Arrival Delay, number of flights and busiest airports.
- Delivered easy to understand , interactive dashboards, comparing on-time performance of American airlines with respect to its major competitor across different airports, along with delays and cancellations using Tableau.
- Determined the on-time performance of 78.5% for American Airlines compared to 70% for its competitor.

Models to predict loan default for Lending Club loans — **January 2022-April 2022**

- Implemented data wrangling and transformation to prepare a dataset suitable for building prediction models and analysis using R programming.
- Conducted exploratory Data analysis to understand which type of loans were at high risk of default, average returns expected from paid loans and the risk associated with the loans.
- Built predictive models using Decision Trees, Random forests to predict loans that were at risk of default with 88% accuracy.