Kunal Desai

Boston, MA | (857) 437-9230 | desai.kun@northeastern.edu | LinkedIn

EDUCATION

Northeastern University | United States | GPA - 3.7* **Sept 2021 - May 2023**
Master of Science, Information Systems
Courses - Designing Advanced Data Architecture for DW & BI, Data Science Engineering

Pune University | India | GPA - 3.6 **Jul 2014 - Jun 2018**
Bachelor of Engineering, Computer Engineering
Courses - DB Design and DB Management, Data Analytics & Statistics, Software Engineering

TECHNICAL SKILLS

Programming	: Python, R, SQL, C++, Java, HTML, CSS
Databases	: MS SQL Server, Oracle DB, PostgreSQL, MySQL
Tools Known	: Tableau, PowerBI, Excel, ER/Studio, Alteryx, Talend, Google Data Studio, Azure Data Studio, Google BigQuery, SSRS, JMeter, Grafana, Kibana, Selenium, Github, Jupyter Notebook
Machine Learning	: Linear and Logistic Regression, Decision Trees, Random Forest, K-Nearest Neighbors, Time Series
Cloud Platform	: AWS, Microsoft Azure

EXPERIENCE

Software Analyst, Yardi Systems | Pune, India **Aug 2018 - Jul 2021**

- Designed, developed, and maintained 150+ custom solutions, specific to client requirements by coding complex **SQL** scripts using development and reporting tools like MS SQL Server, SSRS, and in-house developed tools
- Administered projects for strategic clients using **Python** to develop Advanced Budget Forecasting of their Real Estate and Finance Module performing Predictive Modeling and Regression Analysis of their historical data
- Built data pipelines and performed data integration using in-built **ETL** module to pull client's third-party data into Yardi database. Further, automated the task to occur on a nightly basis, effectively increasing the efficiency by 60%
- Resolved 120+ issues raised using strong analytical and troubleshooting skills and provided technical consultancy for operational, financial, leasing, and maintenance activities to Yardi functional consultants and clients
- Operated tools like **Kibana** and **Grafana** for monitoring database metrics to eliminate any performance overhead
- Conducted stress testing of multiple Yardi web applications using **JMeter,** decreasing manual testing time significantly by 90%. Spearheaded JMeter training sessions for colleagues and interns across teams in my business unit

PROJECTS

Boston Food Inspection Data Analysis | ER/Studio, Alteryx, Google BigQuery, SQL **Feb 2022**

- Analyzed the Boston Food Inspection dataset containing about 600,000+ inspection and violation records
- Built a systematic Dimensional Model for the dataset using **ER/Studio**, creating the essential dimensions and facts
- Employed **Alteryx** to clean, prepare and push the data in **Google BigQuery**, reducing manual work by 70%
- Developed SQL queries and reports to retrieve necessary data, specific to the business requirements

Flight Tickets Prices Prediction | Python, Pandas, Seaborn, Matplotlib **Dec 2021 - Jan 2022**

- Performed **EDA** on the raw dataset including steps like data cleaning, feature engineering, and feature selection
- Implemented label encoding to refine data and improve prediction accuracy. Visualized data using bar plot, heatmap
- Verified the accuracy of several regression algorithms, like Linear Regression, Random Forest Regression, and KNN using spot checking. Prediction made using Random Forest algorithm, achieving an accuracy of 89%

Movie Ticket Booking System | MS SQL Server, Tableau, Draw.io **Nov 2021 - Dec 2021**

- Designed and developed a highly secured database application enabling end-users to view and book movie tickets
- Curated a well-defined and systematic ERD for the database, followed by developing **SQL** objects like Stored Procedures, Functions, Triggers, Views, Indexes, leveraging performance by 65%
- Acquired insights into several parts of the system by visualizing data from views using graphs, bar-plots, histograms, line-charts, and dashboards with the help of **Tableau**

Netflix Data Analysis | Python, Pandas, Numpy, Plotly, Textblob **Sept 2021 - Oct 2021**

- Devised an in-depth analysis and visualization of Netflix Data by analyzing the features and trends in the dataset
- Represented pictorial data using charts like histograms, pie-chart, line graph, stacked bar graph, scatter plot
- Utilized this analysis to perform accurate sentiment analysis and recommendations over Netflix data

LEADERSHIP EXPERIENCES

- Currently holding a **Lead** position at university's ITS department, supervising, and managing 60+ graduate students
- An active former member of the undergraduate **Training & Placement** cell for 3 years. Responsibilities included planning, organizing, and leading several recruitment drives and job fairs