Dheeraj Kusboori

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| https://dkusboori.github.io/Portfolio/

EDUCATION

Southeastern Louisiana University   Hammond, LA
Master of Data Science   May 2023

SKILLS

- Python (Machine Learning, Random Forest, Neural Networks, Support Vector Machines, Natural Language Processing)
- Data Visualization (Tableau, ggplot2)
- Database Management (MySQL, MS SQL Server, T-SQL, BigQuery, Teradata)
- Data Analysis (Predictive Modeling, Time Series Analysis, Cluster Analysis, A/B Testing)
- ETL (Informatica, Custom Python Scripts)
- Microsoft Excel (Report Automation, Advanced Formulas, Pivot Tables)
- Microsoft Visual Basic (Macros Development, Scripting)
- Web Analytics (User Behavior Analysis, KPI Tracking, Dashboard Creation)

CERTIFICATES

- IBM Data Science Professional Certificate, 2023
- IBM Python for Data Science, AI & Development, 2023
- IBM Data Visualization with Python, 2023
- IBM Data Analysis with Python, 2023

WORK EXPERIENCE

EzyNest   **Dallas, TX**
Senior Data Analyst   **May 2023 - Present**

- Collaborated cross-functionally to define and prioritize BI and analytics requirements, resulting in the establishment of a data-driven culture that increased data utilization by 40%.
- Developed scalable data models for internal dashboards and client-facing analytics, improving data accessibility and driving a 25% increase in client satisfaction.
- Leveraged SQL and Python for comprehensive data manipulation and analysis, resulting in enhanced data availability and utility, leading to a 30% reduction in decision-making time.
- Applied statistical and regression analysis concepts to intricate database systems to solve data-related challenges and produce useful business insights.
- Prepared and presented interactive and visually appealing dashboards using Tableau, SSRS, and other data visualization tools.

Southeastern Louisiana University   **Hammond, LA**
Graduate Assistant   **Sep 2022 - May 2023**

- Managed booking and setup of the space for presentations, meetings, workshops, and training, displaying excellent organizational skills.
- Solved a range of hardware and software issues, demonstrating strong problem-solving skills and technical knowledge.
- Created informative documents detailing troubleshooting steps and equipment setup, showcasing technical writing abilities.

IVY Comptech   **Hyderabad, India**
Data Analyst   **Aug 2017 - Oct 2019**

- Undertook meticulous analysis of user activity data collected from the company's website. This helped enhance user engagement by 12% and increase Average Revenue Per User (ARPU) by 14%.
- Supervised A/B testing operations, implementing changes that optimized user experience and led to an 18% increase in conversion rates.
- Collaborated strategically with the marketing team, playing a strategic role in BI and analytics, which resulted in a 22% reduction in customer acquisition costs.
- Developed and maintained high data governance standards that reinforced data quality and consistency across the entire spectrum of business operations.
- Employed predictive modeling and cluster analysis to categorize users based on their wagering behavior. This segmentation resulted in a significant 10% increase in customer retention rates.

Innopark India Pvt. Ltd   **Hyderabad, India**
Data Analyst   **Oct 2011 - Aug 2017**

- Introduced strategic measures for the optimization of business processes, resulting in an 18% improvement in operational efficiency.
- Orchestrated a comprehensive migration of the data environment from MySQL to Teradata. This transition resulted in a 25% increase in data processing speed, boosting the efficiency of data operations.
- Optimized SQL scripts for efficient data manipulation and extraction, leading to significant reductions in data processing times and enhancing the availability and utility of data.
- Created predictive models to better understand customer behavior. The insights from these models greatly improved the personalization of services offered, enhancing overall customer satisfaction.
- Conducted regular and comprehensive risk analyses using sophisticated statistical models that led to identify potential threats and formulate effective strategies to mitigate business risks.
- Implemented advanced data visualization techniques that facilitated a better understanding and presentation of complex data sets, aiding critical decision-making processes within the company.

PROJECT EXPERIENCE

Earthquake Prediction using Machine Learning   **Hammond, LA**
Graduate Thesis   **Jan 2022 - May 2023**

- Conducted rigorous data preprocessing on a large dataset related to seismic activity, improving the quality of the dataset and making it suitable for feature extraction.
- Developed and implemented advanced feature extraction techniques to convert raw data into meaningful inputs for the machine learning model.
- Successfully applied mathematical models like the Gutenberg-Richter function and Seismic Energy Release function, along with 8 other features, which were the key for model's accurate predictions.
- Implemented an efficient feature filtering mechanism using Mutual Information, which reduced the dimensionality of the dataset without significant loss of information.
- Overcame challenges related to handling missing or inconsistent data and dealing with high dimensionality, demonstrating strong problem-solving skills.
- Achieved an accuracy of over 95% for both Classification and Regression models.
- Published the Thesis on https://www.proquest.com/docview/2808487398, after presenting a successful defense to the Southeastern Louisiana University's Thesis Committee.