

Dheeraj Kusboori

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Summary

Operational Data Analyst adept at collecting, analyzing, and interpreting large datasets to drive data-based decision making. Strong analytical, problem-solving skills and high attention to detail, with 8+ years of experience translating data into actionable insights. Proficient in Python, SQL, Tableau, Power BI & Cloud Database systems.

Skills

- **Machine Learning & AI:** Machine Learning, Deep Learning, Neural Networks, Support Vector Machines, Sentiment Analysis, Natural Language Processing (NLP), Data Mining, Text Mining, Ensemble Learning.
- **Cloud & Database Management:** Azure, AWS, Databricks, Snowflake, Data Pipelines, Data Modeling, ETL, ELT, Google BigQuery, Teradata, DBT, Data Warehouse, Data Architecture, Redshift.
- **Data Analysis & Visualization:** Statistical Analysis, Data Visualization, Tableau, Power BI, Identifying Trends/Patterns, Business Intelligence, Designing Key Performance Metrics/Indicators, Data-driven decision-making.
- **Development & Programming:** Python, R, MS SQL Server, MySQL, T-SQL, Apache Spark, Hadoop, PySpark, Spark SQL, Alteryx, Data Engineering, Web Scraping, API Integration, VBA, GitHub, MS Excel.

Professional Experience

Senior Data Analyst | EzyNest | Dallas, TX

05/2023 – Current

- Lead a cross-functional initiative to redefine data analytics & BI priorities, integrating sklearn and debugging techniques, resulting in a 40% boost in data utilization.
- Reduced costs 25% across business units through root cause analysis using SQL, Tableau, and Python.
- Directed the deployment of sentiment analysis and NLP for customer feedback analysis, enhancing product improvements and driving a 25% increase in customer satisfaction.
- Designed and transformed data pipelines using Spark's parallelization and data caching techniques, accelerating data processing by 35% and enabling real-time analytics.
- Develop interactive Tableau dashboards aligning KPIs to business requirements for real-time tracking.
- Collaborate closely with the stakeholders and build a positive culture across technical and business teams.

Graduate Assistant | Southeastern Louisiana University | Hammond, LA

09/2022 – 05/2023

- Coordinated departmental activities, playing a key role in day-to-day operations and streamlining tasks.
- Organized and executed departmental events, seminars, and workshops, ensuring successful outcomes.
- Managed all departmental communications, including emails and phone calls, to facilitate seamless operations.
- Advised and guided students on administrative tasks such as registration and departmental orientations, enhancing their academic experience.
- 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.

NOTE: I moved to the United States in December 2019 and was supposed to start my Master's program in 2020. But, due to the COVID 19 complications and the restrictions, I ended up starting my Master's program in Aug 2021.

Data Analyst | IVY | Hyderabad, India

08/2017 – 10/2019

- Devised marketing strategies to cut acquisition costs through data-based marketing strategies and predictive analytics.
- Conducted an extensive data review using Support Vector Machines, identifying and rectifying discrepancies leading to 20% improved data accuracy.
- Developed advanced analytics solutions incorporating deep learning models like CNN, amplifying marketing campaign impact by 30%.
- Drove 14% rise in revenue by optimizing web layouts and user engagement through A/B testing.
- Established rigorous data governance protocols, ensuring data precision, uniformity and data security across all business facets.

Data Analyst | Innopark India Pvt. Ltd | Hyderabad, India

10/2011 – 08/2017

- Built and deployed fraud detection systems using decision trees, random forests, and predictive models, to restrict system gaming.
- Led a comprehensive migration of the data environment from MySQL to Teradata, resulting in a 25% increase in data processing speed and a boost in the efficiency of data operations.
- Delivered dynamic visual reports using Power BI dashboards, enabling stakeholders to derive real-time insights and make informed decisions.

- Implemented data pipelines with Hadoop ecosystems and Snowflake, streamlining data flow and operational efficiency by 30%.
- Created complex SQL scripts for adept data handling, decreasing data manipulation times and elevating data's overall utility, staying up-to-date with industry best practices.

Education

Master of Science (Data Science) Southeastern Louisiana University	08/2021 – 05/2023
<ul style="list-style-type: none">• Specialization in ML, Statistical Modeling, Mathematical Modeling, Feature Engineering, Model Optimization.	
Bachelor of Science (Computer Science) Osmania University	06/2006 – 04/2009
<ul style="list-style-type: none">• Specialization in Relation Database Management Systems, Statistics, Mathematics	

Academic Projects

Fake News Detection Algorithm	08/2021 – 12/2021
Objective: Design and implement an algorithm to identify and filter out disinformation and fake news articles from digital platforms.	
<ul style="list-style-type: none">• Analyzed and processed a vast dataset of news articles to identify linguistic and structural patterns typical of disinformation.• Engineered features capturing the nuances of fake news using NLP techniques.• Developed a machine learning model, achieving a high accuracy rate in classifying genuine vs. fake news articles.• Presented findings and insights at a university symposium, receiving commendation for innovative approach.	
Technologies Used: Python, TensorFlow, NLTK, Scikit-learn.	
Real-time Air Quality Monitoring and Forecasting System	01/2022 – 05/2022
Objective: Develop a real-time system to monitor air quality indices across various locations and forecast potential deteriorations, utilizing a blend of machine learning and time series forecasting.	
<ul style="list-style-type: none">• Integrated data from multiple air quality monitoring sources and conducted preprocessing to ensure reliability.• Implemented advanced machine learning algorithms to analyze patterns and correlations in air quality data.• Developed a time series forecasting model using LSTM (Long Short-Term Memory) networks to predict future air quality levels.• Deployed a real-time dashboard displaying current air quality indices and future predictions.• Assessed the model's performance continuously and iteratively improved its accuracy over the course of the project.	
Technologies Used: Python, TensorFlow, Keras, Scikit-learn, Tableau.	
Multi-Object Detection Model	08/2022 – 12/2022
Objective: Create a robust deep learning model capable of detecting and classifying multiple objects within a given image or video frame.	
<ul style="list-style-type: none">• Gathered and preprocessed a diverse set of images to train the detection model.• Implemented state-of-the-art object detection frameworks, such as YOLO and SSD, to optimize detection accuracy and speed.• Tuned and validated the model's performance across a range of scenarios, ensuring high precision and recall.• Integrated the model into a real-time video processing application, allowing for on-the-fly object identification.	
Technologies Used: Python, TensorFlow, OpenCV.	
Earthquake Prediction using Machine Learning	08/2022 – 05/2023
Objective: Develop a predictive model that utilizes seismic data to forecast potential earthquake occurrences.	
<ul style="list-style-type: none">• Processed large volumes of seismic data, identifying key features correlated with earthquake events.• Utilized regression models and time series analysis to predict the likelihood and magnitude of potential earthquakes.• Conducted continuous monitoring and model adjustments to ensure prediction accuracy in changing seismic conditions.• Authored a comprehensive thesis, delineating the project's methodology and findings. The paper was subsequently published on ProQuest. (Thesis Link).	
Technologies Used: Python, Scikit-learn, TensorFlow, Pandas.	