

Koushik Hosakere Venkatesh Babu

Data Science Professional

+91 9972495424 / +91 8494965765 | dkoushikgoodur@gmail.com | Bengaluru | [LinkedIn](#)

Master of Science || Data Science and Artificial Intelligence

Expertise In: Quantitative Pricing || Statistical Modeling || Data Exploration and Visualization || Machine Learning || Predictive Analytics || Big Data Technologies || Data Visualization || Natural Language Processing || Project Management || Data Mining || Feature Engineering || Dimensionality Reduction || Data Cleaning and Transformation || Programming Languages || Data Warehousing || Statistical Analysis

Eager and dedicated Master's graduate in Data Science & AI with a solid foundation in data analysis, machine learning, and statistical modelling. Skillset at extracting insights from data, and developing predictive models.

Certifications: IBM || Text Analytics 101 ExcelR Solutions || Data Science Certificate

Profile Summary

- Proficient in analysing large datasets using advanced statistical techniques and data visualization tools to derive actionable insights and drive data-informed decisions.
- Strong expertise in supervised & unsupervised learning algorithms, including classification, regression, clustering, and dimensionality reduction.
- Deep knowledge of data cleaning, transformation, and feature engineering techniques to prepare datasets for model development, predictive analytics, and machine learning applications.
- Skilled in enhancing data collection procedures to ensure comprehensive and high-quality data for developing analytic systems and implementing data-driven strategies.
- Proven ability to process, cleanse, and validate data integrity to maintain accuracy and consistency in analysis, leveraging data quality frameworks and validation techniques.
- Demonstrates capability in using data analysis tools and programming languages such as Python, R, and SQL to perform advanced analytics and statistical modelling.
- Adept at communicating complex data insights through clear reports and visualizations to stakeholders, ensuring actionable recommendations and strategic alignment.

Technical Skills

Others: TABLEAU Desktop, Jupyter Notebook, Google Collab, VS code, Microsoft Excel

Programming Language: Python, R programming and SQL

Machine Learning Frameworks: Linear Regression, Logistic Regression, Decision Tree, KNN, Dimensionality Reduction, Clustering, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn

Professional Experience

Data Science Intern (Remote) | Bengaluru, India

May 2021 — May 2022

- Time Series Prediction:** Trained a machine learning model with LSTM/CNN layers on time series data to predict sunspots. Utilized the SGD optimizer and MAE loss function, achieving significant predictive accuracy.
- Deep Learning for Image Classification:** Built a deep learning model with multiple convolution and dense layers using TensorFlow, achieving a 90% accuracy rate in image classification tasks.
- Data Preprocessing and Feature Engineering:** Mastered data pre-processing techniques, including feature engineering, data cleaning, normalization, and handling of missing data.
- Predictive Customer Analytics for E-commerce:** Spearheaded a project on predictive customer analytics, leveraging predictive modelling to extract insights from customer behavior.
 - Resulted in improved sales strategies & enhanced customer satisfaction.
- Machine Learning and Predictive Modeling:** Developed and deployed predictive models using machine learning frameworks such as PyTorch, TensorFlow, and Scikit-Learn to provide business recommendations.

Projects Handled

Movie Search Engine Enhancement with BM25 and TF-IDF

- Upgraded a movie search engine by integrating BM25 (Okapi BM25) & TF-IDF (Term Frequency-Inverse Document Frequency) algorithms.
- Implemented advanced information retrieval techniques to enhance search relevance and efficiency, providing users with more accurate movie recommendations based on their queries.

Handwritten Digit Recognition using Deep Learning

- Developed a deep learning model using PyTorch with a Convolutional Neural Network (CNN) architecture.
- Successfully achieved high accuracy in classifying handwritten digits from the MNIST dataset, demonstrating proficiency in image recognition and neural network modelling.

Sentiment Analysis with NLP

- Created an 85% accurate sentiment classification model using Python, scikit-learn, and NumPy.
- Employed techniques such as Bag-of-Words, Word2Vec embeddings, and a Random Forest classifier with 100 decision trees to analyze and classify sentiment in text data effectively.

Education

Master of Science || Data Science and Artificial Intelligence || Queen Mary University of London London, UK || Sep. 2022 — Jan. 2024

Bachelor of Science (Physics, Mathematics & Statistics) Bangalore University Bengaluru, India || Jun. 2017 — Oct. 2020

Languages Known: English C1, German A2 (Pursuing), Kannada