

As a highly motivated Data Analyst and Data Scientist with a Master’s in Big Data Science, I have over 2 years of experience as a Data Analyst and strong skills in Python, SQL, Power BI, and data libraries like Pandas, Matplotlib, and NumPy. I specialize in designing data science projects that turn complex datasets into actionable insights. My analytical mindset, attention to detail, and problem-solving abilities drive data-driven decision-making. I excel in cross-functional teams and am committed to advancing my expertise to contribute to innovative projects.

SKILLS

Tools and Languages	Python, Python Pandas, Python Numpy, Python Matplotlib, Python Seaborn, SQL, DB2, Pyspark
Data Visualization	Power BI, MySQL, SQL Server, DB2 servers, Power Bi Dashboards, Data Storytelling, DAX
Machine Learning	Sampling Data, Data Preprocessing, Data cleaning, Regression, Classification, Clustering Analysis, Anomaly Detection, SVM and KNN classifiers, underfitting, and over fitting analyses
People Skills	Effective Decision-Making, Effective Leadership, Proficiency in Overcoming Challenges
Languages	English, Hindi

TECHNICAL EXPERIENCE

Data Analyst <i>Tata Consulting Services</i>	Nov 2020 — Aug 2023 <i>New Delhi, India</i>
<ul style="list-style-type: none">Developed and maintained complex SQL queries for extracting, analyzing, and processing large datasets, improving data retrieval efficiency by 20Automated data cleaning and transformation processes using Python libraries such as Pandas and NumPy, reducing data preparation time by 30Implemented data visualization dashboards in Power BI to present actionable insights to stakeholders, leading to a 15% increase in decision-making speed.Conducted in-depth analysis on customer data, uncovering key trends and patterns that drove a 10% increase in customer retention.Optimized database performance by restructuring tables and indexing, resulting in a 25% reduction in query processing time.	

EDUCATION

Master’s in Big Data Science , <i>Queen Mary University of London, United Kingdom</i>	Sep 2023 — Sep 2024
Bachelor of Technology in Electrical Engineering , <i>Swami Keshvanand Institute of Technology, Jaipur, India</i>	Aug 2016 — July 2020

CERTIFICATIONS

Microsoft Power BI Desktop for Business Intelligence
SQL - MySQL for Data Analytics and Business Intelligence

PROJECTS

Advanced Time Series Forecasting for Energy Consumption	June 2024 — Aug 2024
<ul style="list-style-type: none">Implemented and evaluated multiple time series forecasting models (ARIMA, SARIMA, Auto ARIMA, Prophet, XGBoost) on PJM energy consumption data, achieving a 98.9% accuracy with XGBoost.Conducted extensive feature engineering and cross-validation techniques, enhancing model robustness and reducing forecast errors by over 50% compared to baseline models.Developed advanced predictive analytics to inform energy grid management decisions, reducing RMSE to as low as 431.27 and MAPE to 1.011%, optimizing energy demand forecasts.	
Deep Learning Model Development for CIFAR-10 Classification	Feb 2024 — May 2024
<ul style="list-style-type: none">Designed and implemented a custom Convolutional Neural Network (CNN) using PyTorch for the CIFAR-10 dataset, progressively improving test accuracy to 82.02% over 60 epochs.Applied advanced feature extraction through intermediate blocks, enhancing model performance and stability, with a peak training accuracy of 86.77%.Utilized cross-entropy loss and Adam optimizer to efficiently train the model, demonstrating significant improvement in training and testing accuracy over the course of training.	
Machine Learning Pipeline for Cuisine Classification	Oct 2023 — Dec 2024
<ul style="list-style-type: none">Developed a machine learning pipeline to classify images of dishes as either Indian or Chinese cuisine using a Support Vector Machine (SVM) and other models.Applied advanced feature extraction techniques, including Yellow Component and Gray-Level Co-occurrence Matrix (GLCM), to enhance model interpretability and performance.Conducted model evaluation and comparison, demonstrating the effectiveness of SVM over Random Forest and K-Nearest Neighbors for this classification task.	