MOUNIKA KALLEPALLI

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PROFILE

Highly analytical and results-oriented Data Analyst with 2+ years of experience leveraging SQL, Python, and advanced data visualization to transform complex datasets into actionable insights. IBM and UC Davis certified in Data Science and SQL, adept at building predictive models and optimizing data workflows to drive significant business improvements.

EXPERIENCE

Data Analyst | Neatcom Telematics – Coventry, UK | Apr 2023 – Present
- Built and optimized complex SQL queries to support reporting and data extraction, improving operational efficiency by 20%.
- Developed and maintained interactive dashboards using Excel and Power BI to monitor key performance indicators, enabling stakeholders to identify critical trends and improve decision-making.
- Partnered cross-functionally with operations and sales teams to streamline data ingestion and processing pipelines, reducing data retrieval time by 15% and providing critical insights for strategic planning initiatives.

Data Science Intern | Codegnan IT Solutions – India | Dec 2020 – Apr 2021
- Designed and implemented a Machine Learning model using Python and SQL to predict sanitizer needs in academic settings, achieving 92% prediction accuracy and optimizing resource allocation.
- Contributed to the development of backend systems, integrating SQL databases with Raspberry Pi for automated school bell systems, enhancing scheduling efficiency.

PROJECTS

COVID-19 Prediction Using Chest X-Rays
- Trained Convolutional Neural Networks (CNNs) including ResNet and GoogleNet on the Mendeley dataset, achieving a high accuracy of 96.86% for COVID-19 prediction.
- Preprocessed extensive medical image metadata and automated the training pipeline using Python and SQL for efficient model development.

Student Record Management System
- Developed a full-stack web application using Flask and SQL for comprehensive student data tracking and class scheduling, improving administrative efficiency for academic staff.

CERTIFICATIONS (Coursera)

- IBM Data Science Professional Certificate
  - Python for Data Science, Machine Learning, SQL, Data Visualization, and Capstone Project.
  - Notable Scores: Machine Learning with Python (94%), Applied Data Science Capstone (96%), SQL for Data Science (93.82%).
- UC Davis SQL for Data Science

TECHNICAL SKILLS

Languages & Tools - Python (Pandas, NumPy, Scikit-learn), SQL (MySQL), Flask, Raspberry Pi, Excel (Advanced, Power Query), Power BI, Tableau, GitHub
Techniques - Machine Learning (Classification, Regression, Deep Learning), Data Cleaning, Data Visualization, Model Development, Model Deployment, Statistical Analysis
Soft Skills - Problem-Solving, Team Collaboration, Time Management, Data-driven Decision Making, Communication

EDUCATION

MSc in Data Science | Coventry University, UK | 2023 – 2024
BSc in Data Science | PBSC of Arts and Sciences, India | 2019 – 2022