Atharva Shashank Parkar

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PROFESSIONAL SUMMARY

Experienced Data Analyst with a strong foundation in Python and SQL, proficient in leveraging data-driven insights to enhance business outcomes. Skilled in data manipulation with Pandas and dplyr, and adept at conducting statistical analysis and building machine learning models. Expertise in data visualization using Matplotlib, Seaborn, and Tableau to effectively communicate complex findings to stakeholders. Proven ability to work with big data technologies like Hadoop and Spark to extract and analyze large datasets. Committed to continuous learning and applying advanced analytics techniques to drive strategic decision-making and operational efficiency.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL
Data Analysis: Pandas (Python), dplyr (R), NumPy
Statistical Analysis: Hypothesis Testing, Regression Analysis, Time Series Analysis
Machine Learning: Scikit-learn, TensorFlow, Keras
Data Visualization: Matplotlib, Seaborn, Tableau, PowerBI
Big Data Technologies: Hadoop, Spark

WORK EXPERIENCE

Research Assistant, **Rutgers University** **Feb 2024 - Present**

- Conducted comprehensive data analysis using Bayesian methodologies to improve ROI estimation accuracy.
- Applied advanced statistical techniques and Bayesian inference to analyze and interpret large datasets.
- Collaborated closely with a diverse research team to develop and refine predictive models and analytical frameworks.
- Developed and implemented data visualization techniques to present complex findings in a clear and actionable manner.
- Presented research findings and insights effectively to the professor in charge through clear reports and presentations.

Teaching Assistant, Data Analysis and Visualization Class, **Rutgers University** **Sept 2023 - Dec 2023**

- Assisted professor in designing course materials and assignments involving Tableau and Excel.
- Conducted tutorials to help students understand data visualization techniques and analytical methods.
- Provided one-on-one support to students, clarifying concepts, and troubleshooting issues with data sets and software tools.
- Graded assignments and provided constructive feedback on students' use of Tableau and Excel for data analysis.
- Developed and presented complex data visualizations to demonstrate best practices in data representation.

Data Science Intern, **Capgemini** **Jan 2022 - Mar 2022**

- Performed in-depth sales data preprocessing using Python, Pandas, Numpy, and Matplotlib, resulting in a 3% improvement in prediction accuracy.
- Applied machine learning techniques such as Linear Regression to predict sales trends.
- Utilized advanced time series forecasting methods like ARIMA to enhance the accuracy of sales predictions.
- Prepared and delivered comprehensive presentations and reports to stakeholders, effectively communicating analytical findings and actionable insights.
- Collaborated closely with team members to integrate analytical solutions into business processes, contributing to data-driven decision-making within the organization.

PROJECTS UNDERTAKEN

Spotifire: A Song Likability Predictor Using Machine Learning **Dec 2023**

- Developed Spotifire, a machine learning model to predict user preferences for songs.
- Accessed and processed song data from Spotify using the Spotipy library.
- Implemented a Random Forest model to analyze song attributes and predict user likability with 80% accuracy.

Real-Time Sign Language Recognition **May 2023**

- Created a real-time system to recognize and translate American Sign Language gestures.
- Processed video frames and extracted key features using OpenCV.
- Implemented a Convolutional Neural Network to classify and recognize hand gestures with an accuracy of 97%.

EDUCATION

Rutgers, the State University of New Jersey **Sept 2022 - Dec 2023**
Master of Information Technology and Analytics
Relevant courses: Data Analysis and Visualization, Algorithmic Machine Learning, Neural Networks and Deep Learning.

University of Mumbai **Jul 2018 - Jun 2022**
Bachelor of Technology: Electronics Engineering
Relevant courses: Python for Data Science, Big Data Analytics, Arithmetic for Machine Learning, Cloud Computing.