Aishwarya Sardae

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EDUCATION

Northeastern University, Boston, MA **May 2024**
Master of Science in Data Analytics Engineering GPA – 3.9/4
Courses: Data Analytics, Data Mining, DBMS, Cloud Computing, Statistical Methods, Operations Research

Sreenidhi Institute of Science and Technology, India **July 2021**
Bachelor of Technology in Electronics and Engineering GPA – 3.5/4

PROFESSIONAL EXPERIENCE

Data Analyst

Cognizant Technology Solutions- Bangalore,KA, India **Aug 2021 – Aug 2022**

- Developed predictive models in Python, R, and Scala to optimize business processes, addressing over 50 ad-hoc requests and forecasting customer behaviors in a cross-functional environment.
- Designed and created over 10 interactive dashboards using Power BI and Tableau, facilitating real-time data visualization and insightful reporting for business stakeholders in the finance sector
- Led the design and execution of robust data pipelines, utilizing ETL techniques and tools like DAX. Ensured seamless data flow, efficient processing, and accurate transformation for quantitative analysis in a collaborative SaaS environment.
- Architected the analytics platform with Agile methodologies and JIRA, ensuring scalability, performance, and user accessibility. Monitored KPIs across the organization for quantitative process optimization.

Machine Learning Engineer

Cognizant Technology Solutions- Hyderabad, TS, India **Jan 2020-Jun 2020**

- Received training in diverse machine learning algorithms, particularly in computer vision, and completed a project on handwritten digit recognition with a 92% accuracy rate, providing actionable recommendations.
- Collaborated on marketing strategies for a handwriting recognition application, participating in data preprocessing using Python libraries like OpenCV, Keras, TensorFlow, and Scikit-learn.
- Contributed to deploying machine learning models using Azure, streamlining the model training, evaluation process, and resolving deployment issues.
- Utilized analytical problem-solving and attention to detail to implement CNN architectures in machine learning, achieving 92% accuracy in digit recognition on the MNIST Dataset.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, PL/SQL, C, C++, Java, JavaScript, HTML

Tools and Libraries: Tableau, PowerBI, MS Excel, Jupyter, MongoDB, Apache Spark, Scikit-Learn, PyCharm, Seaborn, NLTK
Core Competencies: AWS Redshift, Agile Methodologies, JIRA, Git, HIVE, SAS, API Development, Statistical Analysis

ACADEMIC PROJECTS

Alzheimer's Disease Prediction | Northeastern University

- Led team to achieve 90% accuracy with Random Forest, utilizing machine learning algorithms and data processing methods.
- Spearheaded model development using transfer learning on medical imaging datasets, ensuring reliability through meticulous evaluation.

Walmart Data Sales Prediction | Northeastern University

- Delivered 95.5% accuracy on weekly sales predictions by utilizing cohort analysis and strategic predictive modelling techniques under various segments.
- Managed large-scale datasets using Data Mining techniques and Apache Spark to improve the training of predictive models.

Cosmetics Store Database Management| Northeastern University

- Utilized technical skills in SQL and NoSQL queries with PostgreSQL and MongoDB for beauty product data management.
- Utilized Tableau to visualize consumer preference trends and optimize inventory strategies, while leveraging Hadoop's distributed computing capabilities for enhanced dataset management and improved decision-making processes.

Covid-19 Detection using Deep Learning| Sreenidhi Institute of Science and Technology

- Developed a Covid-19 detection application using chest X-rays, employing machine learning techniques and deep learning algorithms such as CNN, VGG-16, VGG-19 for patient diagnosis.
- Achieved 96% accuracy rate with VGG-16 model, calculating and plotting accuracy graphs for training and validation data to ensure robust model evaluation.

Elon Musk Tweet Analysis using Sentiment Analysis| Northeastern University

- Developed a comprehensive toolkit using NLTK for bi-gram network creation and sentiment analysis for facilitating insights from Twitter data.
- Computed normalized term frequencies by applying TF-IDF, demonstrated Zipf's law using NLTK, NumPy and Pandas.