Pratik Shendarkar

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Summary — Data Science professional with **3.9 years of experience** in Big Data, ETL Framework implementation, Data visualization and exploratory data analytics. Skilled in Machine learning, statistical data modeling and developing scalable cloud infrastructure to drive actionable insights. Proven record in project management, fostering cross-functional collaboration, and ensuring seamless stakeholders communication to deliver impactful, data-driven results.

Skills

Data Science: Machine Learning, NLP, CNN, Data Mining
Cloud Platforms: AWS, Azure, GCP, Salesforce
Languages: Python, SQL, R, Java, Pyspark
ETL/Data Tools: Snowflake,Informatica, Powerapps
Big Data: Apache Spark, Hadoop, Kafka, Hive
Data Visualization: Power BI, Tableau, Qlik, Excel

Certifications

Structuring Machine Learning Projects (Deep learning), AWS Certified Solutions Architect - Associate (AWS)

Education

Rutgers, New Jersey State University **Sept 2024 - May 2026**
Masters of Data Science - Statistics - GPA 3.83

Experience

ZS Associates - (Business Technology Associate) Nov 2021 – July 2024

- Designed ETL framework and implemented **CI/CD data pipelines** in IICS and Snowflake, developed scalable data models using **SQL, Python, and Spark** across **MongoDB** and **Azure**.
- Leveraged **Power BI/Tableau** to deliver 15+ interactive dashboard featuring demand forecasting KPIs and trackers resulting in a **21%** improvement in business performance for the client.
- Automated **data wrangling process** for 200+ datasets with **Python Rest API** and **JavaScript**, improving ETL efficiency and reducing system processing time by 40%.
- Designed, and deployed **machine learning models** using **Apache Kafka** and **Hadoop**; curated complex datasets and managed production workflows on **AWS Lambda**.

Cognizant Technology Solutions - (Big Data Analyst) Jan 2021 – Oct 2021

- Optimized data ingestion and processing workflows by leveraging cloud architecture; streamlined **AWS** usage to reduce operational costs and improved processing speed by 30% via caching and query optimization.
- Automated ingestion of high-volume datasets (1TB/day) from **BigQuery and Elasticsearch** using **Airflow DAGs**, cutting processing time by **35%** through efficient parallelization.
- Managed **Agile delivery** as a **Scrum Master**, utilizing Agile methodologies and System Integration Testing to implement scalable, efficient solutions aligned with business goals.
- Designed scalable **MapReduce** pipeline and implemented data migration from HDFS environments to **AWS** to process near real-time data, reducing job runtime by **30%** through optimized partitioning and parallel task execution.

Projects

Credit Limit Optimization – Machine Learning *[GitHub Link]*

- Created a predictive model using **Logistic Regression learning model** to optimize credit limits based on transactional history and credit behavior. Utilized Python and libraries like **Scikit-learn, TensorFlow**-learn for data preprocessing, model training along with **TensorFlow and PyTorch** for developing and deploying models.
- Employed **Pandas, and NumPy** for data processing, with PostgreSQL for database management. Deployed the solution using AWS and Azure, and used Jupyter Notebook and Git for development.

Sentimental Analysis/ Text extraction – NLP & Machine Learning *[GitHub Link]*

- Developed a Sentiment/ Text Analytics pipeline using Supervised machine learning models (**Logistic Regression, Random Forest, SVM**) to classify comments, achieving 89.68% accuracy.
- Utilized **Natural Language processing** techniques (VaderSentiment, Scikit Learn, NLTK) for sentiment analysis, keyword extraction, and issue/product identification from customer feedback. Automated the identification of product-related issues and classified them into predefined categories.

Publications

- Published ”A novel approach to improve disaster resilience in civil structure using optical IoT and Cloud Computing” (AIP Conf (2022))
- Presented Paper “Designing and Analysis of Transparent Antenna”” at IEEE Conference(2021)