PARTH GAWANDE

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Solutions-driven professional with expertise in data engineering, data analysis, and machine learning, specializing in scalable data pipelines, AI-driven insights, and business intelligence solutions, seeking full-time opportunities starting May 2025.

EDUCATION

Master of Science in Information Technology and Analytics ***January 2023-May 2025***
Rochester Institute of Technology, Rochester, New York GPA: 3.9/4.0
Bachelor of Technology in Computer Science and Engineering ***July 2018-July 2022***
MIT World Peace University, Pune, India CGPA: 9.27/10.0

EXPERIENCE

Data Analyst | *StandardWings Technologies Pvt. Ltd., India* ***July 2022-December 2022***
- Managed large-scale IoT datasets from 120+ GPS and RFID-enabled garbage collection vehicles using AWS Redshift and AWS Glue, ensuring seamless data flow and improving operational accuracy by 20%.
- Designed Power BI dashboards integrated with AWS QuickSight and API Gateway, providing real-time visibility into logistics and waste collection operations, reducing reporting time by 1.5 hours per shift.
- Automated ETL pipelines with AWS Glue and PySpark to transform and process waste management data stored on AWS S3, reducing manual effort by 30% and enhancing sustainability analytics with regular data quality checks.
- Conducted time-series analysis and clustering on garbage collection vehicle usage data with AWS SageMaker and Databricks, delivering insights that reduced fuel consumption by 20% and supported green technology initiatives.

Data Analytics Intern | *The Sparks Foundation, India* ***December 2021-May 2022***
- Implemented AI-powered candidate screening using CNNs, processing 50,000+ resumes and integrating with HR data on AWS, significantly improving recruitment efficiency and optimizing KPI-driven evaluation metrics.
- Streamlined recruitment processes by analyzing complex hiring patterns using programming in cloud-hosted datasets on AWS, reducing the average time-to-hire by 10% using Python and SQL-driven insights.
- Optimized robust integrated ETL pipelines utilizing AWS Lambda to streamline 10+ diverse datasets, enhancing recruitment data accuracy and reducing processing time by 2 hours per batch.
- Developed interactive dashboards in Tableau and Power BI, integrating machine learning forecasts with visual analytics to facilitate data modeling; resulting in a faster decision-making process and improved operational efficiency by 15%.

SKILLS

Languages: Python, SQL, R, JavaScript, Java, Scala
Databases: PostgreSQL, MySQL, SQL Server, MongoDB, Snowflake, BigQuery, Redshift, NoSQL, Neo4J
ETL & Data Processing: Apache Spark, PySpark, AWS Glue, Airflow, AWS Lambda, Hadoop, AWS S3
Tools: Power BI, Tableau, Looker Studio, Excel, Git, Databricks, SAS, Alteryx, Pentaho, AWS Quicksight, QGIS
Analytics: Scikit-learn, NLP, A/B Testing, Deep Learning, Predictive Analysis, Statistics, Data Warehousing

PROJECTS

StyleSync: AI-Driven Personalized Outfit and Shopping Assistant ***November 2024- Present***
- Developed an AI-powered fashion assistant using Vision Transformers and Siamese Networks for detailed garment analysis, achieving 92% accuracy in outfit compatibility and personalized recommendations.
- Built a hybrid recommendation system combining Graph Neural Networks and Transfer Learning, integrating real-time retail data to enhance outfit pairing and improve wardrobe utilization by 40%.

GeoEnvision: Intelligent Satellite Imaging for Urban Planning ***January 2024- May 2024***
- Established a deep learning-based super-resolution framework using EDSR to enhance 50K+ satellite images, improving clarity for infrastructure planning and environmental monitoring with geometric corrections and noise reduction.
- Implemented a YOLOv3-based object detection system to classify urban landscapes, successfully automating analysis processes that reduced urban planning time by 40% and improved disaster response accuracy for 5 major municipalities.

Analyzing GASTech Building Operations Data ***September 2023- December 2023***
- Conducted anomaly detection on building operations data using Python, SQL, and QGIS, analyzing 20K+ sensor readings to identify security risks and inefficiencies in energy consumption while improving operational transparency.
- Customized interactive dashboards in PowerBI to visualize 50+ key operational patterns, enabling data-driven decision-making for facility management while optimizing data pipelines with Apache Spark for anomaly detection.

DemandCast: Time Series Forecasting for Sales and Revenue Optimization ***April 2023- July 2023***
- Architected a sales forecasting model using LSTM, ARIMA, and Prophet to predict revenue trends and demand fluctuations, analyzing 500k+ transaction records to optimize inventory planning and supply chain efficiency.
- Engineered predictive features including seasonality indices, lag variables, and promotional impact factors, improving forecast accuracy by 30%, and integrating insights into Looker Studio for real-time business decision-making.

ACHIEVEMENTS

- Presented "Video-Based Human Activity Detection" research at the 2022 IEEE International Conference, exploring machine learning-driven enhancements for real-time human activity recognition in CCTV surveillance.
- Published research in The American Journal of Electronics & Communication (2022), analyzing the correlation between temperature rise, CO_2 emissions, and air quality using machine learning techniques.