

Akshat Garg Data Scientist

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Profile

Leveraging 2+ years of experience, I am a data scientist with a robust skill set in machine learning, statistical analysis, and data visualization tools like and Tableau. I am proficient in Python, R, and SQL, with a proven ability to develop predictive models and extract insights from diverse datasets. Additionally, I possess experience in deploying solutions on AWS and containerization using Docker.

Skills

Languages (Python, R, SQL, NoSQL)

Data Processing & Streaming (PySpark, Apache Kafka, Pandas, NumPy, Apache Airflow, Snowflake, ETL, MS Excel, Matplotlib, Seaborn, Plotly, scikit-learn)

Machine Learning Algorithms (Random Forest, Linear Regression, PyTorch, SVM, Decision Tree, ARIMA, Xgboost, TensorFlow, Keras, Scikit-learn, Statsmodels, Deep Learning Algorithms, LSTM, SciPy, NLTK, ResNet 50, VGG16, FFNN, RNN, CNN, Siamese Network, GAN, LSTM)

Frameworks & Tools (Flask, MS SQL, MySQL, PostgreSQL, MongoDB, Git, GitHub, Docker, Statistics, AWS, Azure, Power BI, Tableau)

Professional Experience

Data Scientist, Tata Consultancy Services

08/2023 – Present | Remote, USA

- Orchestrated and delivered captivating machine learning demonstrations utilizing Python libraries Numpy and Pandas to engage students, resulting in a 13% improvement in project outcomes.
- Utilized TensorFlow to develop a comprehensive deep learning training module for education, covering fundamental concepts, neural networks, and advanced algorithms like CNNs and RNNs.
- Developed and deployed machine learning models, including decision trees and gradient boosting, on AWS SageMaker to personalize educational content, resulting in a 24% improvement in student performance.
- Employed Docker containers deploy educational resources such as coding environments and data science notebooks, ensuring high availability and scalability.
- Designed and implemented a MongoDB-based learning management system (LMS) for educational institutions, integrating ETL pipelines to efficiently extract, transform, and load educational data.

Data Scientist, Genpact

07/2020 – 08/2021 | Bangalore, India

- Deployed FFNN and RNN in Python, utilizing AWS EC2 for scalable model training, to analyze sequential healthcare data, improving patient outcome predictions.
- Containerized healthcare applications and machine learning models using Docker, enabling consistent across development, testing, and production environments while ensuring compliance with HIPAA.
- Integrated real-time monitoring systems into healthcare applications using Apache Kafka and Apache Flink, enabling early detection of adverse events and rapid response in clinical settings.
- Used Tableau with machine learning models to develop dynamic and insightful healthcare analytics dashboards, enabling real-time data visualization and predictive analytics.

Data Science Intern, ARM Embedded Technologies

01/2020 – 06/2020 | Bangalore, India

- Analyzed and expanded the existing microarchitecture characterization framework, incorporating new performance metrics and optimizing resource allocation; resulting in a 35% reduction in power consumption and improved system efficiency.
- Leveraged Python frameworks (pandas, numpy, and plotly) to develop an automated dataset visualization process, leading to a 30% decrease in issue triaging time and enabling streamlined decision-making.
- Created and implemented a user-friendly dashboard using Tableau, effectively highlighting critical issues and reducing task duration by 40%.

Education

Master of Science, Rochester Institute of Technology
Data Science

08/2021 – 12/2023 | New York, USA

Bachelor of Technology, Manipal Institute of Technology
Electrical and Electronics

07/2016 – 06/2020 | Manipal, India