

## TECHNICAL SKILLS

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<b>Programming Languages:</b>	Python, Java, R, JavaScript, SQL, C, C#, C++, Scala, Go
<b>Databases:</b>	PL/SQL, MySQL, MongoDB, Couchbase, RDS, Elasticsearch, PostgreSQL, DynamoDB
<b>Technologies/Frameworks / Libraries/Tools</b>	Machine Learning, Unix, Linux, Tableau, Ansible, Power BI, Snowflake, Hive, Apache Spark, HBase, Cassandra, Hibernate, Spring Boot, Junit, ETL, SDLC, Apache Spark, Flink, PySpark, Micro services, Terraform, Flask, Django, Jenkins, GitHub, Git, Airflow, Docker, Kubernetes, JavaScript, Scikit-learn, MLFlow, Keras, TensorFlow, AI, PyTorch, GCP, AWS S3, IAM, EC2, Lambda, SageMaker, SQS, Azure, Hadoop, MapReduce, Kafka, Postgres, NoSQL, SparkSQL

## PROFESSIONAL WORK EXPERIENCE

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### [Teksolve IT Solutions](#) | **Data Scientist** *Feb 2023 – Present*

- Employed Python (Pandas, Numpy), SQL, PySpark, and AWS for data analysis, statistical modeling, and machine learning. Executed custom data visualizations (Jupyter Notebook, Rmarkdown), resulting in a 20% reduction in data processing time.
- Leveraged TensorFlow and PyTorch for developing deep learning models, enhancing model performance and achieving a 20% enhancement in predictive accuracy.
- Orchestrated ML workflows using AWS Step Functions, designing and automating end-to-end pipelines for large-scale data processing, feature engineering, model training, evaluation, and inference, and monitoring pipeline execution for resource constraints achieving 30% reduction in execution time and 50% decrease in errors.
- Engineered and executed robust A/B testing frameworks, rigorously assessing model performance; facilitated smooth model version transitions, enhancing accuracy by 20% and cutting transition errors by 30%.
- Architected a Microservices-based application using FastAPI for backend services, MongoDB for NoSQL data storage, and Docker for containerization, enhancing scalability and resource utilization by 40%.

### [University at Buffalo, The State University of New York](#) | **Graduate Assistant** *Jan 2022 – May 2022*

- As a Quantitative Analyst, mentored 100 students in quantitative analysis for research projects, resulting in a 30% improvement in research quality and outcomes.
- Leveraged R, Python, SPSS, and SAS to modify statistical models and optimize regression and classification models, resulting in a 10% improvement in model performance.
- Achieved a thorough grasp of the technical specifications and project objectives essential to a research initiative, facilitating execution of strategic analytical actions.

### [NSEIT Limited](#) | **Associate Systems Analyst** *Jul 2019 – Jul 2021*

- Architected and developed scalable REST APIs using Java and Spring Boot, facilitating seamless data exchange and achieving a 30% improvement in system performance.
- Analyzed historical data using advanced statistics, time series analysis, and volatility clustering, uncovering insights that increased forecasting accuracy by 15%.
- Applied ensemble learning techniques such as bagging and boosting, enhancing model robustness and predictive performance by 25%.
- Engineered containerized solutions for machine learning models using Docker, ensuring seamless integration within the stock exchange back-office environment and reducing deployment time by 50%, while enabling effortless scalability.

## EDUCATION

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### **Master of Science in Engineering Science (Data Science) | University at Buffalo, SUNY, NY** *Aug 2021 – Feb 2023*

Achievements: Graduate Assistant Scholarship Award, Jan 2022

### **Bachelor of Engineering in Computer Engineering | University of Mumbai, India** *Jul 2015 – May 2019*

## PROJECT EXPERIENCE

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### [Customer Segmentation](#) | (R, GGplot2, Dplyr, Shiny Dashboard UI)

- Deployed an interactive analytical dashboard to identify key characteristics of high-revenue customers of an automobile company for marketing and promotions. Designed unsupervised machine learning models by k-means clustering to identify different users whose needs match products. Deployed dashboard on Shinyapps.

### [Soccer League Application](#) | (HTML, CSS, JavaScript, PostgreSQL, React, Node.js, Python, Git)

- Developed a full-stack web application utilizing HTML, CSS, JavaScript, React, Node.js, Python, and Git, to administer a PostgreSQL relational database serving as a platform to judge a soccer player's performance in recent years and visualized player statistics in interactive plots and ratings.