Kaushal Shivaprakashan

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Education

State University of New York at Buffalo,
Buffalo, NY
Masters in Engineering Science - Data Science
Graduation Date: Dec 2025

Visvesvaraya Technological University,

Bangalore, India
Bachelor of Engineering - Information Science and Engineering
Graduation Date: Aug 2023

Work Experience

Cognizant Technology Solutions, Ltd.,
Chennai, India
Junior Data Engineer (Dec 2023 – Aug 2024)

- Architected and implemented data model integration solutions using Informatica PowerCenter, IICS Cloud, Python, and SQL, resulting in a 15% improvement in project efficiency and data processing speed.
- Optimized data warehousing and big data processes, leveraging advanced ETL techniques and analytics to increase overall system performance by 20%.
- Streamlined data schema designs, reducing query execution time by 25% and improving data accessibility for cross-functional teams.
- Collaborated with stakeholders to identify and implement data quality measures, reducing data inconsistencies by 30%.
- Earned the prestigious *Cognizant GENC Techie Award* for demonstrating exceptional leadership and technical excellence,

contributing significantly to successful project delivery.

Project Experience

University at Buffalo Research Project, Buffalo, NY
Adaptive Crop Yield Forecasting Using Statistics (Aug 2024 – Dec 2024)

- Developed a crop yield forecasting model using R, scikit-learn, and statistical learning techniques, increasing prediction accuracy by 30%.
- Implemented feature selection and regularization, optimizing performance metrics (RMSE, R-squared) by 25%.
- Conducted comprehensive data analysis on climate patterns, soil composition, and historical yield data to identify key factors influencing crop productivity.

University at Buffalo Project, Buffalo, NY
NVIDIA GPU Benchmark Classification & Prediction (Sep 2024 – Dec 2024)

- Developed an end-to-end machine learning pipeline for NVIDIA GPU benchmark classification and prediction, utilizing Python, pandas, scikit-learn, and XGBoost.
- Designed and executed machine learning

experiments using MLflow for tracking and DagsHub for version control.

- Deployed a high-performance GPU classification model as a RESTful API using FastAPI, Docker, and cloud platforms.
- Created an interactive Streamlit web application for real-time predictions, reducing prediction latency by 30%.

Skills

Programming Languages: Python, R, SQL, Java, C++, C
Data Engineering & Big Data Tools: Hadoop, Apache Spark, Databricks, Snowflake, Informatica PowerCenter
Databases: MySQL, PostgreSQL, MongoDB
Cloud Platforms: AWS, Google Cloud Platform (GCP), Azure
Machine Learning Libraries: TensorFlow, scikit-learn, Keras, Statsmodels
Data Visualization Tools: Matplotlib, Seaborn, Power BI, Tableau
Other Tools: Docker, Kubernetes, Git, MS Office

Links

- Adaptive Crop Yield Forecasting Using Statistical Learning Algorithms

- Machine Learning Model for NVIDIA GPU Benchmark Classification and Prediction