

Virti Jain

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EDUCATION

Stony Brook University

Master of Science in Data Science | GPA: 3.89

Stony Brook, New York

Relevant Coursework: Natural Language Processing, Machine Learning in Quantitative Finance, Data Analysis, Statistical Learning, Case Study in ML and Finance

Acropolis Institute of Technology & Research

Indore, India

Bachelor of Technology in Computer Science Engineering (Data-Science) | GPA: 3.6

Dec 2020 – Jun 2024

Relevant Coursework: Data Analytics & Visualization, Data Engineering, Machine Learning for Data Science

TECHNICAL SKILLS

Programming Languages: 4 years – Python (NumPy, Pandas, Matplotlib, TensorFlow, PyTorch), SQL, Java; 1 year - R

Data Science & Frameworks: 3 years- Machine Learning (Regression, SVM, kNN, K-Means, Random Forest), Deep Learning (CNN, RNN), Data Analysis, Data Visualization, Statistics, Data Modeling & Pipelines

Tools & Technologies: Power BI, Excel, DataBricks, Tableau, MySQL, MongoDB, PostgreSQL, Oracle, Hadoop, Snowflake, Jupyter Notebook, SQL Server, MATLAB

Cloud Technology: Google Cloud Platform (GCP), Azure

Certifications: Wipro Certified Full Stack Developer (Oct, 2023), Artificial Intelligence Builder- MPSSDEGB and FITT-IIT Delhi, Python 3.4.3 - Spoken Tutorial Project, IIT Bombay

PROFESSIONAL EXPERIENCE

Algoventor Solutions Pvt. Ltd.

Indore, India

Data Science Intern

Jun 2024 – Aug 2024

- Engineered data pipeline processing time-series records using SQL and Python, resulting in 40% improved data processing efficiency and streamlined cross-functional team collaboration. Collaborated with cross-functional teams to define data analysis requirements and present actionable insights to stakeholders.
- Developed 3 forecasting models (ARIMA, LSTM, Bayesian Neural Networks) using Python and TensorFlow, achieving 94% accuracy in energy demand predictions and reducing prediction time by 25%. Utilized AWS cloud services for data storage and processing, enhancing scalability and performance of data analysis workflows.

ACADEMIC RESEARCH & PROJECTS

Real-Time Financial Forecasting and Dashboard

Jun 2024 – Dec 2024

- Built end-to-end data pipeline using SQL and Python frameworks (pandas, NumPy) to process financial data, achieving 40% faster processing speed and real-time data integration.
- Implemented hybrid ML/DL architecture combining Random Forest, RNN, and CNN models using scikit-learn and TensorFlow, resulting in 92% accuracy for short-term financial predictions.
- Created dynamic visualizations and interactive reports using Tableau and DataBricks, enhancing data accessibility and decision-making across the organization.
- Conducted detailed budgeting, forecasting, and variance analysis to support financial and operational planning.

E-commerce Market Basket Analysis for Regional Products

Jan 2024 – May 2024

- Analyzed 100,000+ e-commerce transactions to identify product affinities and optimize sales of regional items using market basket analysis techniques.
- Developed 5 distinct customer segments based on purchasing behavior, enabling targeted marketing strategies for regional products.
- Implemented data-driven recommendations resulting in a 15% increase in cross-selling opportunities and a 10% boost in overall sales of regional items.