Savinay Shukla

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EDUCATION

New York University

Brooklyn, NY

Master of Science in Computer Engineering

Sep 2022 - May 2024 (expected)

• Relevant Coursework: Machine Learning, Deep Learning, High Performance Machine Learning

Manipal University Jaipur

Jaipur, India

Bachelor of Technology in Information Technology

Jul 2015 - Jul 2019

• Relevant Coursework: Data Science, Data Structures and Algorithms, Operating Systems

TECHNICAL SKILLS

Languages: Java, Python, C/C++, R, SQL, NoSQL, MongoDB, JavaScript, TypeScript, HTML, CSS

Data Science: Data Analysis and Visualization, Statistics, Predictive Modeling, Feature Engineering, EDA, ETL **Machine Learning**: Neural Networks, Computer Vision, Natural Language Processing, Time Series Analysis

Frameworks: Pytorch, Azure, Docker, REST, AWS, GCP, Cassandra, Kafka, Git, Kubernetes

Professional Experience

Graduate Teaching Assistant

New York City, NY

New York University

Jan 2023 - Present

- Spearheading support in implementing advanced deep learning systems within distributed environments using High-Performance Computing (HPCs)
- Guided 40 graduate students in the implementation of TensorFlow and PyTorch applications on HPC clusters
- Curated course content on the use of NumPy, Pandas, and Numba in data science and scientific computing

Software Engineer

Bengaluru, India

IBM

 $Dec \ 2019 - Aug \ 2022$

- Led successful migration of legacy Apache Struts 2 web app to Spring microservices architecture, enhancing scalability and performance
- \bullet Optimized CI/CD pipelines, resulting in a 40% reduction in deployment time and a 25% increase in release frequency
- Awarded "IBM Gold Champion Learner 2020" recognition for a continuous learning initiative

Data Science Intern

Pune, India

Morning Blaze Pvt. Ltd.

Feb 2019 - Jul 2019

- Engineered a data modeling pipeline for extracting market indicators (commodities, forex, global markets), enhancing predictive modeling for BSE automotive stock opening prices
- Implemented lightweight time forecasting models, integrating market and technical indicators to boost accuracy
- Conducted comprehensive research on historical data, ensuring incorporation of extensive indicators to effectively capture stock market downturns
- Optimized the engine across 300+ BSE companies, resulting in an impressive 5% reduction in prediction losses

Certifications and Badges

IBM Data Science Professional | Authorized by IBM

Dec 2021

IBM AI Associate | Authorized by IBM

Aug 2021

• Demonstrated proficiency in data science, utilizing Jupyter notebooks, Python, SQL, and relevant libraries for solving real-world problems

PROJECTS

Distributed Dual-Discriminator GANs | Pytorch, Generative Models, HPC

Apr 2023 – May 2023

- Optimized DCGAN training pipeline by introducing an extra discriminator for faster convergence
- Realized a 40% reduction in time for optimal FID and IS Scores across CIFAR, MNIST, and SVHN datasets
- Implemented a parameter-server architecture for distributed, multi-GPU training to scale the prototype

ClearView - Lightweight Dehazenet | PyTorch, Computer Vision

Mar 2023 – May 2023

- Revamped the Dehazenet architecture by incorporating efficient depth-wise separable convolutions
- Attained on par model performance with less than 2000 trainable parameters and 8MB model size