

Savinay Shukla

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EDUCATION

New York University

Brooklyn, NY

Master of Science in Computer Engineering

Sep 2022 – May 2024 (expected)

- GPA : 3.97
- 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

- GPA : 3.6
- Relevant Coursework : Data Science, OOPs, Data Structures and Algorithms, Operating Systems

TECHNICAL SKILLS

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

Data Science : Data Analysis and Visualization, Statistics, Predictive Modeling, Feature Engineering, EDA, ETL

Machine Learning : Neural Networks, Computer Vision, Regressive Modeling, Time Series

Frameworks : Pytorch, Angular, Docker, Spring Boot, 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 35 students in the implementation of TensorFlow and PyTorch applications on HPC clusters
- Curated course content on the use of NumPy, Pandas, and Numba in computational chemistry

Developer

Bengaluru, India

IBM India

Dec 2019 – Aug 2022

- Boosted database read performance by analyzing queries, optimizing key columns for indexing, and achieving a 30% reduction in read time for improved efficiency
- 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 scraping 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

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