Savinay Shukla

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EDUCATION

New York University

Brooklyn, NY

Master of Science in Computer Engineering

Sep 2022 – May 2024

Manipal University Jaipur

Jaipur, India

Bachelor of Technology in Information Technology

Jul 2015 - Jul 2019

EXPERIENCE

Graduate Course Assistant

New York City, NY

NYU Center for Data Science

Jan 2023 - Present

- Leading the charge in the deployment of sophisticated deep learning systems in distributed settings, leveraging High-Performance Computing (HPCs) with a focus on Large Language Models (LLMs)
- Mentoring a group of 40 graduate students in the practical application of **TensorFlow and PyTorch** on HPC clusters.

Software Engineer

Bengaluru, India

IBM

Dec 2019 - Aug 2022

- Led successful migration of legacy Apache Struts 2 web application to **Spring microservices**, enhancing scalability and performance
- Leveraged Java 8, Hibernate, and Oracle Database to create a robust and efficient back-end for the microservices
- \bullet Spearheaded code reviews and QA within an agile and test-driven development environment, elevating overall code quality by 40%

Data Science Intern

Pune, India

Morning Blaze Pvt. Ltd.

Feb 2019 - Jul 2019

- Engineered an **ETL pipeline** for extracting market indicators (commodities, forex, global markets), enhancing predictive modeling for BSE automotive stock opening prices
- Implemented lightweight time-series 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

Charlotte | Ollama, Langchain, Python

Feb 2023 – Present

- Developed an innovative personal assistant utilizing **Langchain** and **open-source LLMs** like Mistral and Llama 2 to optimize productivity workflows
- Engineered a speech-to-text input pipeline seamlessly integrated with Gmail API for efficient email management and Slack API for instant notifications

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

TECHNICAL SKILLS

Languages: Java, Python, C/C++, 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, TensorFlow, Azure, Docker, REST, AWS, GCP, Cassandra, Kafka, Git, Kubernetes