Savinay Shukla

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EDUCATION

New York University	Brooklyn, NY
Master of Science in Computer Engineering	*Sep 2022 – May 2024 (expected)*
Manipal University Jaipur	Jaipur, India
Bachelor of Technology in Information Technology	*Jul 2015 – Jul 2019*

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

PROFESSIONAL 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)
- Mentored a group of 40 graduate students in the practical application of TensorFlow and PyTorch on HPC clusters, with special emphasis on implementing Vision Transformers

Software Engineer	Bengaluru, India
IBM	*Dec 2019 – Aug 2022*

- Led successful migration of legacy Apache Struts 2 web application to Spring microservices architecture, enhancing scalability and performance
- Leveraged Java 8, Hibernate, and Oracle Database to create a robust and efficient back-end for the microservices
- 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 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

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