SAVINAY SHUKLA

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY — Sept 2022 – May 2024 (expected)
Master of Science in Computer Engineering
· Coursework: Machine Learning, Deep Learning, High Performance Machine Learning

Manipal University Jaipur, Jaipur, India — Jul 2015 - Jul 2019
Bachelor of Technology in Information Technology
· Coursework: Data Structures and Algorithms, Java, OOPS, Data Science

SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, C++, SQL, NoSQL
Tools and Framework: Angular, Node.js, Spring Boot, Struts, JUnit, PyTorch, Docker, REST, Git

WORK EXPERIENCE

NYU Center for Data Science, New York City, NY — May 2023 – Aug 2023
Graduate Employee Adjunct
· Section Leader for the course - DS-UA 301: Advanced Data Science
· Guiding students in the implementation of deep learning frameworks such as TensorFlow and PyTorch
· Responsible for facilitating practical lab sessions and ensuring students' understanding of the frameworks

New York University, Brooklyn, NY — Jan 2023 – May 2023
Graduate Course Assistant
· Assisted Prof. David J. Pine in his course on scientific computation using Python
· Curated course content on the use of NumPy, Pandas, and Numba in computational chemistry

IBM India, Bangalore, India — Dec 2019 – Aug 2022
Full-Stack Developer
· Responsible for the development and deployment of API improvements primarily focused on application migration
· Collaborated with multiple development teams to deliver fast and robust solution prototypes
· Improved a full-stack web application to incorporate real-time tracking and reporting of industrial cargo
· Transformed source modules and schemas to increase report generation performance by 70%
· Introduced modern UI modifications for users to upload and analyze cargo data easily
· Awarded "IBM Gold Champion Learner - 2020" recognition for a continuous learning initiative

Morning Blaze Pvt. Ltd., Pune, India — Feb 2019 – Jun 2019
Data Science Intern
· Coordinated research on prior implementations of time-series analysis on stock market data
· Engineered modules and macros to automate technical analysis of stock market indices
· Responsible for collecting and analyzing structured and unstructured market sentiments

PROJECTS

Distributed Dual Discriminator GANs, Brooklyn, NY — Apr 2023 – May 2023
Pytorch, Generative Models
· Enhanced the DCGAN training pipeline for faster convergence by introducing another discriminator
· Achieved a 40% speedup in time to achieve optimal FID and IS Scores across CIFAR, MNIST and SVHN datasets
· Extended the prototype to a distributed environment using parameter-server architecture for multi-GPU training

ClearView - Lightweight Dehazenet, Brooklyn, NY — Mar 2023 – May 2023
PyTorch, Computer Vision
· Implemented depth-wise separable convolutions in the Dehazenet model to significantly reduce trainable parameters
· Achieved comparable model performance with Dehazenet with than 2000 trainable parameters and 8MB model size

Market Watcher, Pune, India — Feb 2019 – Jun 2019
Python, Flask, TensorFlow
· Developed a python based stock market recommendation engine using Pandas, Keras and Flask
· Incorporated global market indices and technical indicators as prominent features to reduce prediction errors
· Optimized engine across 300+ BSE companies, resulting in reduced prediction losses of up to 2%