

SAVINAY SHUKLA

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EDUCATION

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| New York University, Tandon School of Engineering , Brooklyn, NY
<i>Master of Science in Computer Engineering</i> <ul style="list-style-type: none">Coursework: Machine Learning, Deep Learning, High Performance Machine Learning | Sept 2022 – Present |
| Manipal University Jaipur , Jaipur, India
<i>Bachelor of Technology in Information Technology</i> <ul style="list-style-type: none">Coursework: Data Structures and Algorithms, Java, OOPS, Data Science | Jul 2015 - Jul 2019 |

SKILLS

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| 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

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| NYU Center for Data Science , New York City, NY
<i>Graduate Employee Adjunct</i> <ul style="list-style-type: none">Section Leader for the course - DS-UA 301: Advanced Data Science.Guiding students in the implementation of Machine Learning frameworks such as TensorFlow and PyTorch.Responsible for facilitating practical lab sessions and ensuring students' understanding of the frameworks. | May 2023 – Present. |
| New York University , Brooklyn, NY
<i>Graduate Course Assistant</i> <ul style="list-style-type: none">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. | Jan 2023 – May 2023. |
| IBM India , Bangalore, India
<i>Full-Stack Developer</i> <ul style="list-style-type: none">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. | Dec 2019 – Aug 2022 |
| Morning Blaze Pvt. Ltd. , Pune, India
<i>Data Science Intern</i> <ul style="list-style-type: none">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. | Feb 2019 – Jun 2019 |

PROJECTS

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| Distributed Dual Discriminator GANs , Brooklyn, NY
<i>Pytorch, Generative Models</i> <ul style="list-style-type: none">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. | Mar 2023 – May 2023 |
| ClearView - Lightweight Dehazenet , Brooklyn, NY
<i>PyTorch, Computer Vision</i> <ul style="list-style-type: none">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. | Feb 2023 – May 2023 |
| Market Watcher , Pune, India
<i>Python, Flask, TensorFlow</i> <ul style="list-style-type: none">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%. | Feb 2019 – Jun 2019 |