

Anish Batra

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EDUCATION

New York University, Brooklyn, New York
Master of Science, Computer Science

Aug 2018 - Dec 2019

Delhi Technological University (Erst. DCE), New Delhi
Bachelor of Technology, Mathematics and Computing (**CGPA**: 7.85/10)

Aug 2012 - May 2016

RELEVANT COURSEWORK (GRADUATE)

Design and Analysis of Algorithms , Cloud Computing, Big Data, Artificial Intelligence, Deep Learning, Machine Learning, Information Visualization , Intro to Java, Advance Machine Learning in Finance

TECHNICAL SKILLS

Programming Languages	Java (Proficient), C++, Python, R, SQL, JavaScript
Libraries / Frameworks	PyTorch (Proficient), Tensorflow, AWS, Tableau, MySQL
Web Development	Flask, Spring MVC, REST APIs, SOAP, Heroku

PROFESSIONAL EXPERIENCE

Quantitative Research Intern (Machine Learning), XLP Capital, NY, New York **Sep 2019 - Present**

- Experimenting with different statistical and machine learning techniques to develop a trading strategy.

Summer Technology Analyst, Morgan Stanley, 1585 Broadway, New York **Jun 2019 - Aug 2019**

- Improved the latency of ATDL (Algorithmic Trading Definition Language) strategy tags enrichment by 64% - by optimizing the code, caching, and off-loading the critical trading path (C++, Python).

Senior Software Engineer, Nucleus Software Exports Ltd., Noida, India **Jul 2017 - Jul 2018**

- Developed key features such as Auto-Settlement, Disbursement, Interest Calculation Engine for the Financial Supply Chain module (Java, Spring).
- Managed and led a 5-member team towards the production support of Payments module.

Software Engineer, Nucleus Software Exports Ltd., India **Jul 2016 - Jun 2017**

- Developed features such as Debit and Credit consolidation for the Payments module in FinnAxia (Java).
- Created a custom ML based model to find anomalies in the Payment Transactions data (Python).

PUBLICATIONS AT INTERNATIONAL CONFERENCES

- [Cardiotocography Analysis Using Conjunction of Machine Learning Algorithms](#) **Jan 2016 - Apr 2016**
- [Classification of Arrhythmia Using Ensemble of Machine Learning Techniques](#) **Sep 2015 - Nov 2015**

PROJECTS

Few Shot Image Generation using Generative Adversarial Networks

- Explored two different methods for generating images using GANs (using only 4 base images): Meta-training a DCGAN network with Reptile; and transfer learning and data-augmentation with DCGAN, InfoGAN etc.

Stock Trading Bot Using Reinforcement Learning

- Created a basic trading bot by formulating the trading problem as a MDP - and solved it using Deep Q-Learning algorithm. The RL based strategy outperformed the Monte-Carlo Simulation (baseline).

Rank one at "Galaxy Merger Detection" Kaggle Competition (In-Class), NYU, New York

- Using an ensemble of ResNet50 and Xception deep learning architectures (optimizer: Adam with decay) - analysed 61,578 images of galaxies, and predicted their probability of belonging to a particular class.

Artificial Intelligence in Healthcare

- Developed a SaaS (Software as a Service) product which uses computer vision for medical diagnosis.