Anish Batra

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EDUCATION

New York University, Brooklyn, New York   **Aug 2018 - Dec 2019**
Master of Science, Computer Science (**GPA**: 3.7/4)

Delhi Technological University (Erst. DCE), New Delhi   **Aug 2012 - May 2016**
Bachelor of Technology, Mathematics and Computing (**CGPA**: 7.85/10)

TECHNICAL SKILLS

Programming Languages	Python, R, SQL, Java, C++, JavaScript
Libraries / Tools	PyTorch, Keras, Tensorflow, Hadoop, AWS, MySQL
Web Development	Flask, Django, REST APIs, SOAP, Heroku

PROFESSIONAL EXPERIENCE

Summer Technology Analyst, **Morgan Stanley,** 1585 Broadway, New York   **Jun 2019 - Present**
- Developing high-performing, low-latency electronic trading systems, and evolving complex workflows and life-cycle management capabilities. (C++, Python)

Senior Software Engineer, **Nucleus Software Exports Ltd.,** Noida, India   **Jul 2017 - Jul 2018**
- Managed and led a 7-member team towards production support of the Payments module in 2.5, 3.0 and 4.0 version of the FINNAXIA (transaction banking software) product.
- Designed and developed key features such as Auto-Settlement, Disbursement, Interest Calculation Engine for the pre and post-shipment loans while developing the Financial Supply Chain module for FINNAXIA 5.5.

Software Engineer, **Nucleus Software Exports Ltd.,** Noida, India   **Jul 2016 - Jun 2017**
- Developed an AI model that uses supervised learning to flag potentially fraudulent activity in a payment transaction.

PUBLICATIONS AT INTERNATIONAL CONFERENCES

Cardiotocography Analysis Using Conjunction of Machine Learning Algorithms   **Jan 2016 - Apr 2016**
- Research paper presented and published at the *International Conference on Machine Vision and Information Technology (CMVIT 2017)* organized in Singapore. (Python/R, Neural Networks, Gradient Boosting, SVM)

Classification of Arrhythmia Using Ensemble of Machine Learning Techniques   **Sep 2015- Nov 2015**
- Research Paper presented and published at the *15th International Conference on Applied Computer and Applied Computational Science (ACACOS 2016)* organized in Prague, Czech Republic. (Python/R)

PROJECTS

Few Shot Image Generation using Generative Adversarial Networks
- Explored two different methods for generating images using GANs (using only four base images): "Meta-training a DCGAN network with Reptile", and "Transfer learning and data-augmentation with DCGAN, cDCGAN, and InfoGAN". (PyTorch, 3 NVIDIA V100 GPUs).

***Rank one at "Galaxy Merger Detection" Kaggle Competition (In-Class),* NYU, New York**
- Using an ensemble of ResNet50 and Xception deep learning models (optimizer: adam with decay), we analyzed 61,578 images of galaxies, and predicted their probability of belonging to a particular class. (Keras, Tensorflow, Python, Computer Vision, 1 NVIDIA V100 GPU, 16 CPUs).

Artificial Intelligence in Healthcare
   Developed a SaaS (Software as a Service) product which uses computer vision for medical diagnosis. The computer vision API used Inception v3 model on CT Scan images to detect lung cancer. Key technical features are: Login (Flask-Login), Payment (Stripe API), Database (PostgreSQL), AWS.

Deep Learning with JavaScript
- Developed a web-app demonstrating the concept of client side artificial neural networks. The model predicted the top five probabilities of image uploaded (out of 1000 trained classes) (Tensorflow.js, Node.js, Keras, Express).