Ishan Bhatnagar

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SUMMARY

A clear thinking and analytical Computer Science graduate student, fascinated by algorithms, machine learning, deep learning and keen on learning new technology and applying them to practical situations.

EDUCATION

University of Illinois at Chicago (UIC) - Chicago, IL   May 2021 (Expected)
Master of Science in Computer Science

Mumbai University (MU) - Mumbai, India   May 2019
Bachelor of Engineering in Information Technology Engineering

TECHNICAL SKILLS

Languages/Libraries/Tools: Java, python (TensorFlow, keras, NumPy, pytorch, pandas, OpenCV, nltk, scikit-learn), C, C++, C#, SQL, NoSQL, MATLAB, octave, R, git, latex, Julia, Angular, Node, React, JavaScript, jQuery, php, Hadoop, bash, Drupal, Ruby, AWS, Docker.

INTERNSHIP EXPERIENCE

Decimal Point Analytics - Mumbai, India June. 2018 – July. 2018 *Trainee*
- Completed the machine learning(NLP) project Creditpulse which classifies companies which might be bankrupt in the near future using text analysis by modifying built in packages and using the "tf-idf" algorithm for feature extraction and regression tree algorithm for the classification. The project was written in Julia language.

Tata Consultancy Services - Mumbai, India June. 2017 – August. 2017 *Intern*
- Developed features using the CMS "Drupal" for Molar bear, a Business to Business dental supplies site. I used Browser Stack and Mantis tools to track and report bugs to the agile development team. I participated in defect tracking and resolution discussions with the development team, repaired them.

PROJECTS

Frozen Lake using Q learning   Fall 2019
- Built a reinforcement learning model for playing the frozen lake game using the openAI gym library and used Q-learning, a type of reinforcement learning to train the agent to play the game in the stochastic environment.

Speech Recognition, summarization & sentiment analysis   Spring 2019
- Designed an end to end application with a GUI for speech recognition using "CMU sphinx" which uses Hidden Markov models, latent semantic analysis for text summarization and used LSTM via keras for sentiment analysis.

Handwritten digit creation using generative adversarial network   Fall 2018
- Generated handwritten digits using TensorFlow framework in python and TensorFlow with keras for the standard computer vision MNIST dataset and generated the digits using the generator-discriminator architecture, cross entropy loss functions and leaky "Relu" units.

Object classification using Convolutional neural networks   Fall 2018
- Made a 6 layered CNN using "Keras" framework in python for the computer vision CIFAR-10 dataset for classifying 10 different objects apart with 90% accuracy using data augmentation, data regularization, batch normalization and stochastic gradient descent.

ACCOLADES

- Placed in top 40 in IIT Kharagpur Coding contest amongst hundreds of participants-Leaderboard (Contest).
- Completed Deep Learning, a 5-course specialization by deeplearning.ai by Coursera taught by Professor Andrew Ng.
- Completed edX machine learning certification by Columbia University- Certification.
- Maiden publication accepted in IEEE International Conference on Signal and Image Processing Applications 2019 at Kuala Lumpur; a pre-print is available.