Ameya Godbole

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EDUCATION

UNIV. OF MASSACHUSETTS AMHERST
MS in Computer Science
Expected Graduation: May 2020

IIT (INDIAN INSTITUTE OF TECHNOLOGY) GUWAHATI
BTech in Electronics & Communication
Minor in Computer Science
May 2018 | Guwahati, India
Major GPA: 9.15 / 10
Minor GPA: 8.8 / 10

LINKS

Github:// **ameyagodbole**
LinkedIn:// **ameyag416**
Medium:// **@ameyagodbole**

COURSEWORK

GRADUATE
Machine Learning (CS 689)*
Reinforcement Learning (CS 687)*
Algorithms for Data Science (CS 514)*
* Ongoing

UNDERGRADUATE
Spoken Language Systems
Computer Vision
Pattern Recognition & Machine Learning
Advanced Topics in Random Processes
Math. Techniques for Control & Sig. Proc.
Algorithms & Data Structures
Computer Systems

OPENCOURSEWARE
Deep Learning Specialization
By deeplearning.ai on Coursera
Probabilistic Graphical Models 1: Representation
By Stanford University on Coursera

SKILLS

PROGRAMMING
Python • C++ • C

FRAMEWORKS/LIBRARIES
TensorFlow • Keras • MATLAB

MISCELLANEOUS
Numpy • Pandas • scikit-learn
Familiar:
OpenMP • MPI

PUBLICATIONS

[1] Ameya Godbole, Spoorthy Bhat and Prithwijit Guha. "Progressively Balanced Multi-class Neural Trees". NCC 2018 (Presented)

[2] Ameya Godbole, Aman Dalmia and Sunil Kumar Sahu. "Siamese Neural Networks with Random Forest for detecting duplicate question pairs". arXiv:1801.07288

EXPERIENCE

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
Software Development Intern
May 2016 – July 2016 | Pune, India
- Designed and contributed to a molecular dynamics simulator under the Bioinformatics Resources and Applications Facility at CDAC
- Studied the principles of parallel computing and implemented the same with MPI to make a simulator capable of utilizing the processing capabilities of a CPU cluster

PROJECTS

PROGRESSIVELY BALANCED MULTI-CLASS NEURAL TREES
Dr. Prithwijit Guha, Dept. of EEE, IIT Guwahati
Aug 2017 – May 2018
- Proposed and tested an entropy impurity based objective function for incorporating a learnable perceptron into the decision tree framework.
- The learned classifier achieves comparable accuracy with fewer test time computations than an MLP.

COMMERCIAL SEGMENTATION IN TELEVISION STREAM
Dr. Prithwijit Guha, Dept. of EEE, IIT Guwahati
Jun 2017 – Aug 2017
- Attempted segmentation of commercials in television stream through audio-visual feature engineering and application of sequence classifier.

DEEP SEMANTIC KERNEL (DESK)
Dr. Amit Sethi, Dept. of EEE, IIT Bombay
May 2017 - Jun 2017
- Applied transfer learning by leveraging capabilities of CNN in the source domain and maximum margin classifiers in the low-data target domain, especially in image classification tasks.

QUORA QUESTION PAIRS (KAGGLE)
Collaborator: Aman Dalmia
Apr 2017 - Jun 2017   Website
- Trained a Siamese Gated Recurrent Unit (GRU) RNN over sentence pairs to detect duplicate questions, securing a position in the top 25% among 3000+ teams on Kaggle.

SCHOLASTIC ACHIEVEMENTS

Secured merit-based change of discipline from Electronics and Electrical Engineering to Electronics and Communication Engineering in July 2015

Secured All India Rank 1893 in JEE Advanced 2014 (out of 126k) and All India Rank 547 in JEE Mains 2014 (Percentile score: 99.87)