Ananya Banerjee

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EDUCATION

University of Texas at Dallas, USA

- M.S in Computer Science with Specialization in Intelligent Systems — Aug 2018 – Aug 2020

Birla Institute of Technology and Science, Pilani Campus, Pilani, India

- M.Sc(Hons) in Mathematics — Aug 2013 – May 2017

RESEARCH EXPERIENCE

Artificial Intelligence Institute, University of South Carolina, Columbia, SC

- Research Intern in AI — Aug 2019 – Dec 2019
  - Expected to engage in AI research involving knowledge graphs, Machine/Deep Learning, Computer Vision and Natural Language Processing.This will involve exploring novel techniques for Social/Health Informatics using Knowledge-driven Learning Approaches.
  - Supervisor: Dr Amit Sheth, Director of Artificial Intelligence Institute, University of South Carolina
  - Focus: Machine Learning, Computer Vision, NLP

Busigence Technologies, Gurgaon, India

- Data Science Associate (Research Intern for 5.5 months) — Jul 2016 – Dec 2016
  - Worked on several specialized projects in the areas of Machine Learning, Data Science and Adaptive Machine learning. The specialized modules included class imbalance, hyper-parameter optimization using Bayesian Approach and In-depth research for several Machine Learning Algorithms
  - Supervisor: Mr.Pranav Verma, CEO Busigence Technologies
  - Focus: Machine Learning, Data Science, Transfer Learning, Meta Learning

PROJECTS

Artificial Intelligence Institute, Columbia, SC, USA

- Object Detection — Aug 2019 – Oct 2019
  - This project consists of using Knowledge Graph and General Adversarial Learning to detect objects. The code will soon be available on github.

University of Texas at Dallas, USA

- Fake Opinion Detector — Jun 2019 – Jul 2019
  - The model was trained using Yelp's NY restaurant reviews dataset and is capable of detecting fake reviews given to restaurants.
- Toxic Comment Detector — Jul 2019 – Aug 2019
  - The model was trained using dataset of Wikipedia comments given in Kaggle's Toxicity Detection challenge and is capable of classifying a given comment into toxic,severe toxic, obscene, threat,insult and identity hate.

Busigence Technologies, Gurgaon, India

- Finding solution to Class Imbalance — Jul 2016 – Aug 2016
  - This project was done single-handedly by me wherein I did extensive research on the existing techniques of solving class imbalance and devised an improved version of an existing algorithm that is capable of handling all kinds of class imbalances and gives higher efficiency than all existing algorithms. Further Details cannot be revealed due to NDA signed.
- Hyper-parameter Optimization using Bayesian Approach — Aug 2016 – Oct 2016
  - This project aimed at finding ways to find optimal hyper-parameters for any Machine Learning and Deep Learning algorithm. I worked on deciding upon which optimization is most viable given a problem and a data-set. I also worked on trying to understand Bayesian Optimization using several libraries of python such as Hyperopt and sklearn.
- Modification of Deep learning and Machine Learning Algorithm — Oct 2016 – Dec 2016
  - This project aimed at finding how several Machine Learning and Deep Learning Algorithms emerged, the maths behind them, how could they be improved and how one can regularize models depending on the choice of ML algorithm. I have studied algorithms like Logistic regression, K-Means, K-Median, hierarchical clustering, Deep Belief Networks, Restricted Boltzman machines , Perceptron and Multi Layered Perceptron

SKILLS

Python, Java, C++

SCHOLARSHIPS

- **Jonsson School Graduate Scholarship** April, 2018
  - This is a competitive merit based scholarship which is awarded by the Erik Jonsson School of Engineering and Computer Science each year to select few incoming graduate students aiming to study at University of Texas at Dallas.

SPECIALIZATIONS

- **Deep Learning Specialization on Coursera (deeplearning.ai)**, Feb 2018 – May 2018
  - This Specialization covers a wide variety of topics from Machine Learning, Deep Learning, Transfer Learning and Sequence Models.