Kartik Sreenivasan

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EDUCATION

UNIVERSITY OF WISCONSIN-MADISON
PhD in Computer Science
(Advised by Prof. Dimitris Papailiopoulos)
CGPA: 3.96/4
Aug 2018 - Current | Madison, WI

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA
B.Tech in Information Technology
2011 - 2015| Karnataka, India
CGPA: 9.89 / 10.0 | Rank: 1/800

HONORS

- Aug. 2018 | ***UW-Madison Special CS Scholarship ($6000)***
- Nov. 2015 | ***Institute Gold Medal - Information Technology***
- Apr. 2015 | ***Teekays Award for the Best Outgoing Student***
- Apr. 2015 | ***Smt. Umadevi Channabasappa Memorial Prize*** for securing highest CGPA from I to VII semester
- Aug. 2013 | ***Dr. Rishipal Singh Memorial Prize*** for being the Best Student of I year of the Institute

COURSES

- [MA/CS726, 730] ***Nonlinear Optimization - I, II***
- [MA/CS728] ***Integer Optimization***
- [MA/CS525] ***Linear Programming***
- [MA 833] ***Modern Discrete Probability***
- [CS880] ***Advanced Learning Theory***
- [CS787] ***Advanced Algorithms***
- [CS761] ***Mathematical Machine Learning***
- [ECE901] ***Theoretical Results in Machine Learning***

PATENTS

- US20160196563: ***Method to expand seed keywords into a relevant social query***.
- US20160196354: ***Method to modify existing query based on Relevance Feedback from Tweets***.

RESEARCH

CORNELL, MARYLAND, MAX PLANCK PRE-DOCTORAL RESEARCH SCHOOL | Attendee
Summer 2019 | Max Planck Institute, Saarbrucken, Germany

XVI SUMMER SCHOOL IN DISCRETE MATHEMATICS | Attendee
January 2021 | Universidad De Chile (Virtual)

STOCHASTIC SYSTEMS LABORATORY | Project Assistant
Aug 2017 – March 2018 | Indian Institute of Science

- Worked with **Prof. Shalabh Bhatnagar** to build a ***multi-agent deep reinforcement learning*** algorithm to perform efficient vehicular traffic control using ***Tensorflow*** and ***SUMO*** (road traffic simulation package).

TEACHING

UNIVERSITY OF WISCONSIN-MADISON | Teaching Assistant

- Fall 2018 | MA/CS 240 - ***Intro to Discrete Mathematics***
- Spring 2019 | MA/CS 435 - ***Intro to Cryptography***
- Fall 2019 | CS 577 - ***Intro to Algorithms***
- Spring 2020 | MA/CS 513 - ***Numerical Linear Algebra***

EXPERIENCE

SAMSUNG ADVANCED COMPUTING LAB | Research Intern
Summer 2019 | San Jose, California

- Designed a Machine Learning Framework to help streamline hardware development by optimizing the simulation and emulation parameters.

ADOBE SYSTEMS | Media Optimizer - Algorithms Team
Aug 2016 - July 2018 | Bangalore, India

- Designed a Model Testing Framework from the ground up.
- Built a click/cost model using ***XGBoost***. ***Improved RMSE by over 20%*** from the existing model.
- Worked closely with clients and account managers to setup and run head to head tests against competitors such as ***Google*** and ***Kenshoo***.

ADOBE SYSTEMS | Data Science and Advanced Projects
Jun 2015 – Aug 2016 | Bangalore, India

- Built a Proof of Concept (POC) to use ***NLP*** in ad modeling by leveraging ***Spark***, ***Azure*** and ***Mllib***. The POC was also used by management to determine the feasibility of using ***Azure-ML*** across Adobe.

ADOBE RESEARCH LABS | Research Intern
Summer 2014 | Bangalore, India

- Developed an algorithm to generate a query to extract relevant Twitter posts given the input topic (social querying).

PUBLICATIONS

- ***Attack of the Tails: Yes, You Really Can Backdoor Federated Learning***, (***NeurIPS'20***)