Saurabh Kumar

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| Georgia Institute of Technology B. S. in Computer Science & Minor in Mathematics GPA: 3.97/4.00 Senior RESEARCH Georgia Institute of Technology, School of Interactive Computing Professor Charles Isbell — Laboratory for Interactive Artificial Intelligence, College of Computing Submitted "Learning to Compose Skills" to Deep Reinforcement Learning Symposium at NIPS 2017 Published "State Space Decomposition and Subgoal Creation for Transfer in Deep Reinforcement Learning" at the 2017 Conference in Reinforcement Learning & Decision Making (RLDM) Built infrastructure for a human to provide feedback to a reinforcement lang agent via speech as it learns to navigate a maze environment and received the Barry M. Goldwater Award for this work Professor Interphysical Professor Infrastructure for a human to provide feedback to a reinforcement lang, Georgia Tech Trained neural networks and support vector machines on the MNIST dataset to analyze their performance on different distributions of training data Illinois Institute of Technology Professor Mine Wernick — Mediciael Imaging Research Center, Illinois Institute of Technology Detected Alzheimer's disease from brain scans using PCA, SVMs, and Fischer linear discriminant EMPLOYMENT Georgia Tech Machine Intelligence Team Paper on "Federated Control with Hierarchical Multi-Agent Deep Reinforcement Learning" accepted to the Hierarchical Multi-Agent Deep Reinforcement Learning and Processory Internation to Fernando Pereira, the VP of Natural Language Understanding at Google Vahoa Research Intern in Yahoo's Machine Learning and Vision Team Applied convolutional neural network architectures to improve state-of-the-art logo | EDUCATION | |
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| IBM Bluemix, and JavaScript to recommend restaurants in any specified location satisfying a user's health profile. (http://hackdukefall2014.challengepost.com/submissions/30149-ieatout) | | Nov 2014 |
| profile. (http://hackdukefall2014.challengepost.com/submissions/30149-ieatout) | | · - · |
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SKILLS

- Programming Languages: Java (Weka), Python (Caffe, Tensorflow, PyTorch, Keras, sklearn, pandas), MATLAB (LibSVM), C
- Web Services: Microsoft Azure (Azure Machine Learning)
- Languages: English, French (conversational), Hindi (conversational)

Saurabh Kumar
330862 Georgia Tech Station, Atlanta GA 30332 ♦ 630-696-2136 ♦ skumar311@gatech.edu ♦ GitHub: https://github.com/skumar9876

| LEADERSHIP | |
|---|----------------------------|
| Georgia Tech Undergraduate Research Ambassador | Aug 2017 – Present |
| Connect students interested in undergraduate research with professors | |
| SPS Legacy Committee Member | May 2017 – Present |
| Chosen by the SPS Program to lead the process of selecting and implementing a legacy that the 50 members of the SPS Class of 2018 will collectively give back to the Georgia Tech community | |
| Head TA for Honors Discrete Math at Georgia Tech | Aug 2016 – Dec 2016 |
| Held office hours, led review sessions for exams, graded homeworks and tests | |
| SPS Third Year Retreat Committee Member | <i>May 2016 – Sep 2016</i> |
| Planned activities and logistics for the SPS Third Year Retreat focused on understanding scholarship | |
| Communicated with invited speakers & the SPS class of 2018, designed an activity to outline various | |
| career paths, and determined the retreat budget | |
| Executive Board Member of Aarohi, Georgia Tech's Indian Classical Music Organization | Aug 2014 – Present |
| Organized Khayaal 2015 and 2017, Georgia Tech's premier annual Indian classical music festival | |
| Tabla Student at Pandit Jasraj School of Music (PJSM) in Atlanta | Aug 2014 – Present |
| Take weekly classes from a world-class tabla musician and perform in concerts in the Atlanta area | _ |
| International Leadership Expeditions through the SPS Program | Aug 2014 & May 2015 |
| Participated in a two week backpacking expedition in Canada to develop leadership and teamwork | |
| Organized Khayaal 2015 and 2017, Georgia Tech's premier annual Indian classical music festival Tabla Student at Pandit Jasraj School of Music (PJSM) in Atlanta Take weekly classes from a world-class tabla musician and perform in concerts in the Atlanta area International Leadership Expeditions through the SPS Program | Aug 2014 – Present |

Traveled to Argentina - one week of backpacking and one week of immersion in Argentine culture