Sriram Ravindran

Full time SDE/Machine Learning Engineer roles - Starting April 2018

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EDUCATION

University of California, San Diego Sep '16 - Present
MS in Computer Science, GPA: 3.9

Indian Institute of Technology, Indore Jul '12 - May '16
Bachelor of Technology (CSE), Major GPA: 9.54/10

WORK EXPERIENCE

Software engineering intern, Yahoo Inc. June '17 - Sep '17
- Decreased search speed on Yahoo Ads Platform by up to 13x using elasticsearch.
- Extended the platform by writing 3 REST APIs to resolve search requests.
- Tested and productionized my contributions.

Graduate student researcher, UC San Diego Sept '16 - Present
- Developed methods to classify single trial EEG using deep learning.
- Combined CNNs and LSTMs to achieve state-of-the-art performance.
- Ongoing research with recent architectures like ResNets, GANs and one-shot learning.

Data science intern, Oracle Bangalore May '15 - Nov '15
- Developed a Hadoop based tool based on recommender systems to recover revenue on unsold products.
- Targeted customers based on location and provided basic analytics.

PUBLICATIONS

- R. Maddula, J. Stivers, M. Mousavi, **S. Ravindran** and V. de Sa A. (2017, Sept). Deep recurrent convolutional neural networks for classifying P300 BCI signals. In Graz Brain-Computer Interface Conference(GBCIC) 2017.
- C. Gautam, A. Tiwari & **S. Ravindran**, Construction of Multi-class Classifiers by Extreme Learning Machine Based One Class Classifiers, International Joint Conference on Neural Networks (IJCNN 2016), IEEE WCCI 2016, Vancouver, Canada, 24-29 July 2016.
- [**Best Paper Award**] **Ravindran, S.**, Gautam, C., & Tiwari, A. (2015, December). Keystroke user recognition through extreme learning machine and evolving cluster method. In 2015 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC) (pp. 1-5). IEEE.

PROJECTS

Neural style transfer using Generative Adversarial Networks [Keras] 2017
- Implemented the traditional Neural style transfer technique.
- Improved style transfer speed by training a GAN to add style instead of generating images from noise.

Scalable neural networks with Apache Spark [Scala] 2015
- Implemented ELM based one class classifier on Spark.
- Employed random sparse matrices to improve speed for large datasets (tested upto 3-4GB)
- Preserved performance on multiple standard classification datasets.

RESTful API for e-Commerce system [PHP Laravel] 2014
- Developed scalable RESTful APIs for an e-Commerce system using MVC architecture.
- Supported migrations and transactions.

Ant colony optimization for TSP [Java] 2014
- Implemented a thread-safe ACO based solution to the traveling salesman problem.
- Designed a GUI for easy visualization.

Frisk metadata finder [Java] 2014
- Employed acoustID APIs and MusicBrainz database to fetch metadata for unknown audio files (songs).
- Reorganized a messy unlabeled song collection by album.

Keywords - machine learning, scikit, keras, C++, java, python, bci, software development, mahout