

Researcher for deep learning for natural language understanding

Position Summary:

Samsung Research America is located in Mountain View, California is currently recruiting world-class professionals who share our "Innovation through Passion" philosophy and thrive in a fast-paced, cross team, results-driven environment, with focus on highly visible, challenging, and cross discipline projects.

The successful candidate will have a keen interest on both practical and fundamental research on deep learning in the context of natural language understanding especially with regard to its integration into semantic recognitions in language. The focus is to study and design novel deep learning models for learning representations from textual and visual data to enhance language understanding, to advance current machine learning techniques for representation learning, and to effectively capture world knowledge needed in natural language understanding. The candidate will be a part of an interdisciplinary research team. Implementation skills and the ability to create early-stage prototypes are also desirable.

Common Essential Duties & Responsibilities:

- Develop and implement novel deep learning algorithms for a variety of real world applications
- Contribute to the research activities of our team; participate and lead some of the research efforts
- Formulate research problems based on real-world needs and independently conduct high-quality research
- Generate creative solutions (patents) and publish research results in top conferences (papers)

Background / Experience:

Expertise in one or more of the following areas:

- Expertise in natural language processing/understanding
- Expertise in designing new algorithms for deep learning training and inference
- Strong background in deep learning (CNN,RNN,DBN,DBM), regression, support vector machines, random forests, neural networks, graphic models
- Excellent knowledge in optimal computational environment required for data processing, mining and machine learning
- Proficiency in a neural network library (e.g., Caffe,TensorFlow,Theano,Torch...)
- Knowledge of GPU programming using CUDA and OpenCL is a plus
- Proven track record of research/publications on machine learning and artificial intelligence field

Necessary Skills / Attributes:

- Excellent communication skills and willingness to work with an international team to deliver rapid prototypes
- Ph.D. in Computer Science, Electrical Engineering, or related field

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