Tushar Khot

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Objective

To work in a computer science research lab where I can apply and enhance my knowledge of Artificial Intelligence especially statistical methods for Natural Language Processing.

Education

University Of Wisconsin
Madison, USA.
PhD Student
Computer Sciences (Fall 2008 onward)
Awards: *Alumni Scholarship 2008*

National Institute Of Technology (NIT)
Tiruchirappalli, India.
Bachelor of Technology (B.Tech)
Computer Sciences, May 2006
Awards: *Gold Medalist*

Work Experience

Google R&D Center, Bangalore, India
Software Engineer -II/III (06/06 – 06/08)
Document Classification
- Extracted the relevant terms/words from noisy web documents by filtering out common words.
- Compared various algorithms for classification of documents using these extracted words.
- Implemented a pipeline to scan through millions of such documents and classify them.

LocalSearch for India
- Sanitized the data obtained from various local yellow page providers.
- Mapped the location of the free-form and incomplete addresses from the yellow page listings.
- Co-ordinated with various international teams to launch LocalSearch property for India.(http://local.google.co.in).

Amazon, Bangalore, India
Software Intern (05/05 – 06/05)
- Worked on weblog analysis for A9 search engine.
- Contributed to a Naïve Bayes binary classification of documents.

Research Experience

University of Wisconsin, Madison, USA
Research Assistant (06/09 – now)
- Building a system to parse news articles and extract structured data as part of the *Machine Reading Project* sponsored by DARPA.
- Developing efficient approaches to learn the structure of Statistical Relational Learning models

National Institute of Technology (NIT), Tiruchirappalli, India
Final Thesis (01/06 - 05/06)
"*Design and Implementation of a Routing Protocol in Wireless Sensor Network*" – Implemented a routing protocol that forms an ad-hoc tree-like network to increase the sensor's life and prevent disconnected components.

SERC, Indian Institute of Science (IISc.), Bangalore, India
 Summer Internship (05/04-06/04)
"*Application of Genetic Algorithm in optimization of WDM multicast networks for wavelength minimization*" - Applied Genetic Algorithm on a wavelength division multiplexing (WDM) multicast network to minimize the required number of wavelengths. (Matlab)

Publications

- **Gradient-based Boosting for Statistical Relational Learning: The Relational Dependency Network Case**. Sriraam Natarajan, Tushar Khot, Kristian Kersting, Bernd Gutmann and Jude Shavlik. Invited contribution to special issue of *Machine Learning Journal (MLJ), Volume 86, Number 1, 25-56, 2012.*
- **Learning Markov Logic Networks via Functional Gradient Boosting**. Tushar Khot, Sriraam Natarajan, Kristian Kersting, Jude Shavlik. In *ICDM 2011.*
- **Boosting Relational Dependency Networks**. Sriraam Natarajan, Tushar Khot, Kristian Kersting, Bernd Gutmann and Jude Shavlik. In *ILP 2010.*
- **Exploiting Causal Independence in Markov Logic Networks: Combining Undirected and Directed Models**. Sriraam Natarajan, Tushar Khot, Daniel Lowd, Kristian Kersting, Prasad Tadepalli and Jude Shavlik. In *ECML 2010.*
- **How creative is your writing? A linguistic creativity measure from computer science and cognitive psychology perspectives**. Xiaojin Zhu, Zhiting Xu, and Tushar Khot. In *NAACL 2009 Workshop on Computational Approaches to Linguistic Creativity*, 2009.
- **Some new directions in graph-based semisupervised learning** . Xiaojin Zhu, Andrew B. Goldberg, and Tushar Khot. In *ICME, Special Session on Semi-Supervised Learning for Multimedia Analysis*, 2009.

Computer Skills

Programming: C/C++, Java, Perl, MATLAB, Unix Shell Scripting.
Operating Systems: Unix/Linux, Windows.
Databases: MYSQL, Big Table.