BINIT MOHANTY
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OBJECTIVE

A Software Engineering position utilizing knowledge of Information Theory and Machine Learning with applications to Speech and Natural Language Processing

EDUCATION

Johns Hopkins University Baltimore, MD
MSE, Electrical & Computer Engineering, GPA 3.99 — Aug 2006 - Jan 2009

Relevant Coursework: Information Theory, Machine Learning, Natural Language Processing, Introduction to Speech and Audio Processing, Information Extraction from Speech & Text, Information Retrieval & Web Agents, Syntax

Indian Institute of Technology Kanpur, India
BTech, Electrical Engineering, GPA 9.1/10 — Aug 2002 - May 2006

HONORS/AWARDS

- Best Project Award for implementing a Speaker Identification System using SVMs for classifying speakers at the annual Departmental Summer Research Camp for IIT Kanpur EE Sophomores.
- Notional certificate of Merit (equivalent to the Dean's List) for the academic year 2002-03 at IIT Kanpur.

EXPERIENCE

Software Engineering Intern, Google Inc., Mountain View, CA — June - Aug 2008

- Implemented a key change in the large scale parallel Language Modeling Infrastructure.
- Improved speed and efficiency of the Machine Translation System (Google Translate).

Research Intern, IBM T.J. Watson Research Center, Yorktown Heights, NY — June - Aug 2007

- Explored methods for improving Dialogue Systems using statistical modeling.
- Designed a method to optimize Noise Grammars in dialogue systems, the work was published in ICASSP 2008.

Coordinator & Student Instructor, EE Summer Research Camp, IIT Kanpur, India — May - June 2006

- Organized and coordinated the Summer Camp team consisting of 12 senior instructors and 30 sophomores.
- Supervised two sophomore students as they built a Music Enhancement Toolbox.

Research Intern, University of Sheffield, Sheffield, UK — June - Aug 2005

- Researched various methods of Audio Diarization at the Speech and Hearing Research Group.
- Applied Gaussian Mixture Modeling for identifying and marking regions corresponding to individual speakers.

PUBLICATIONS

Binit Mohanty, John Hershey, Peder Olsen, Suleyman Kozat, Vaibhava Goel, *Optimizing Speech Recognition Grammars using a measure of Similarity between Hidden Markov Models*, Proceedings of International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2008

Binit Mohanty, Saurabh Madan, A.K. Chaturvedi, *A Low Complexity Receive Method for OFDM systems using Negative Time Extension*, B.Tech Thesis submitted to Department of Electrical Engineering, IIT Kanpur, 2006

SKILLS

Computer Languages: C++, Perl, Shell scripting
Software Packages: Matlab
Operating Systems: Linux, Windows
Spoken Languages: English, Hindi, Oriya(Native)