1100 W NC HWY 54 BYP, APT 38B
CHAPEL HILL, NC 27516
(919)-448-8740
ravikirn@cs.unc.edu
www.ravikiranj.net

Ravikiran Janardhana

Industry Experience

Summer 2012 **Software Developer Intern**, *Microsoft Corporation*, Redmond.

- Developed and implemented an algorithm using AdaBoost (Adaptive Boosting) technique to detect multiple intents (or actions) in natural spoken language.
- Improved the accuracy of detecting single intent user utterances by 1.40%.

2009–2011 **Software Engineer**, *Yahoo! India*, Bangalore.

- Developed Facebook, Twitter and LinkedIn modules for My Yahoo! product.
- Implemented front-end based instrumentation of My Yahoo! in order to compute page-views, module-views and click through rates (*CTR*).
- Developed an instrumentation dashboard to showcase daily statistics of views (in the order of millions) and clicks utilizing Apache Hadoop and Pig as backend infrastructure.

Academic Experience

2011–present **Research Assistant**, *University of North Carolina at Chapel Hill*, Chapel Hill.

- Worked on identifying fiber crossing landmarks in white matter of human brain under *Dr. Martin Styner (styner@cs.unc.edu)*.
- Developed a framework to register Krabbe disease infected infant brain to a normal brain. This procedure helps physicians to analyze the treatment efficiency.

Education

2011–present **MS.**, *University of North Carolina at Chapel Hill*, Chapel Hill, NC.
Masters in Computer Science

2005–2009 **BE.**, *Peoples Education Society Institute of Technology (PESIT)*, Bangalore, India, Bachelor of Engineering in Computer Science.
Percentage: 88.40, **University Topper**

Computer skills

Programming	C/C++, PHP, Python, Perl, Java
Web	HTML5, Javascript, CSS, YUI, jQuery
Data Mining	Pig, Hadoop
Platforms	Linux, Web
Concepts	Image Processing, Computer Vision, Machine Learning, Data Mining

Academic Projects

2012 **Twitter Sentiment Analyzer**.

- Developed a tool to analyze the sentiment (*positive, neutral, negative*) expressed in a user twitter status messages (See details at `www.ravikiranj.net`).
- Compared the accuracy of sentiment analysis using various machine learning algorithms namely Naive Bayes Classifier, Maximum Entropy Classifier and Support Vector Machines.

2011 **Roadmap-based Motion Planning in Dynamic Environments**.

- Implemented a motion planning algorithm for a point robot to navigate in a dynamic environment consisting of both static and dynamic moving obstacles from start to goal

2009 **Track Me - A suite of innovative user interfaces**.

- Track Me is a series of innovative user interfaces whose goal is to help users interact with their PC in a natural manner. It consists of:
  - Fintrack ME - Finger Tracking Mouse Emulator
  - Talk2me - A speech driven Powerpoint and Windows Media Player assistant
  - Point2me - A laser point tracking Powerpoint and Windows Media Player assistant
- This won the best project award in the Department of Computer Science at Prakalpa 2009 organized by PES Institute of Technology

2008 – 2009 **American Sign Language Interpreter**.

- Developed a real-time interpreter of American Sign Language alphabets which converts hand gestures into text, which is further read out by a speech engine
- This project resulted in a research paper which was presented at *International MultiConference of Engineers and Computer Scientists 2009, Hong Kong*
- An extension of this work appeared as a book chapter in *Intelligent Automation and Computer Engineering*, Springer, 321-332, 2010

Awards and Achievements

Mar 2011 **Promoted**, *Yahoo! India*, Bangalore, India.
Promoted to Senior Software Engineer

Jan 2010 **University Gold Medal**, *Visvesvaraya Technological University*, PESIT, Belgaum, India.
Awarded Gold Medal for being the University topper in Bachelor of Engineering (B.E) in Computer Science (2005-09)

Jul 2009 **Certificate of Merit**, *International MultiConference of Engineers and Computer Scientists 2009*, Hong Kong.
Awarded Certificate of Merit for the conference paper *Finger Detection for Sign Language Recognition* presented at IMECS 2009, Hong Kong

Interests

GitHub URL	`www.github.com/ravikiranj` (personal side projects)
Software	Linux and Open Source
Web/Mobile	HTML5, Android and iOS App Development
Sports	Football, Cricket, Basketball
Entertainment	Classical/Electric Guitar, Keyboard, Computer Games and Table Tennis