Nibir Bora

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EDUCATION

◇ **University of Southern California**, Los Angeles, CA
MS in Computer Science, expected graduation: May 2014
Courses: *Analysis of Algorithms, Natural Language Processing, Web Technologies, Database Systems, Artificial Intelligence, Human Communication & Machine Learning*

◇ **KIIT University**, Bhubaneswar, India
B.Tech. in Computer Science and Engineering, May 2012
Bachelor thesis: *Etola: Heuristic Clustering of Short Text*

WORK/ INTERNSHIP

◇ **Research Assistant**, USC Information Sciences Institute (Aug 2012 - Present)
Group: *Computational Behavior Group*
Description: Involved in building an application for Twitter scrapping using Python and maintaining large geo-spatial databases in PostgreSQL. Design and development of various visualization and analysis tools to study mobility patterns, each consisting of REST APIs in Python/Django and web interface in JavaScript/jQuery with Google Maps API.

◇ **Summer Research Intern**, IIT Guwahati, India (May 2011 - Jul 2011)
Area of research: *Sentiment Analysis, Machine Learning*
Project: *Feature Based Sentiment Analysis on Twitter* (Novel research work on sentiment analysis. Involved building an application for Twitter scraping, machine learning algorithms and evaluation scripts using PHP.)

PROJECTS

◇ **Geospatial Analysis of Motion-Based Intelligence & Tracking (GAMBIT)** (2012 - Present)
`brain.isi.edu/~gambit`

A study in spatio-temporal data analytics to understand human mobility patterns, crowd mobility and behavior patterns, and reveal interesting correlations over space and time.

◇ **Heuristic Clustering of News Headline** (2011-12)

Developed a novel heuristic method to cluster news headlines, tested on five short-text corpora, and compared results with traditional clustering algorithms and results of other short-text clustering.

◇ **Sentiment Classification of Tweets** (2011-12)

Devised an automatic labeling technique for tweets and carried out a comparative study with other noisy label methods. Studied different methods of feature reduction and automatic test set generation. Built a web based application for opinion mining on tweets.

◇ **Academic projects:**

· *Socio-cultural Elements in Multimodal Human Communication* (2012):
An user agreement experiment on multicultural dyadic interview videos.
· *Sentiment Analysis on Conversational Speech Transcriptions using Vocal Cues* (2013)

PUBLICATION

◇ Spatiotemporal Patterns in Social Networks (*SNSC'13*)
◇ Gang Networks, Neighborhoods and Holidays: Spatiotemporal Patterns in Social Media (*SocialCom'13*)
◇ Heuristic Frequent Term-Based Clustering of News Headlines (*ICCCS'12*)
◇ Summarizing Public Opinions in Tweets (*CICLing'12 poster session and IJCLA June'12*)
◇ Etola: A News Headline Clustering Tool *(ICDCIT'12 poster session)*

SKILLS

◇ Python, C, PHP
◇ HTML, CSS, JavaScript, jQuery, Node.js, Django
◇ PostgreSQL, MongoDB
◇ scikit-learn, NumPy, SciPy, NLTK, Matlab

† *Seeking Internship opportunities during Spring 2014 & Internship/Full-time opportunities during Summer 2014.*