Smriti Singh

Present Address

B.Tech & M.Tech (Dual Degree),
Department of Computer Science and Engineering,
National Institute of Technology, Rourkela

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Areas of Interest   Machine Learning, Text Mining, Programming

Education

National Institute of Technology, Rourkela   2010-2015
B.Tech. & M.Tech. Dual Degree in Computer Science and Engineering
- Cumulative Grade Point of 8.99/10
- Dissertation : Improved Techniques for Review Spam Detection
- Advisor: Prof. Sanjay Kumar Jena

All India Senior School Certificate Examination, CBSE, India   2010
DAV Public School CSPur
- Secured a cumulative 94.4% in the subjects Mathematics, Physics, Chemistry, Computer Science and English

All India Secondary School Examination, CBSE, India   2008
St. Xaviers High School, Khandagiri
- Secured a cumulative 93.4% in the subjects Mathematics, Science, Social Sciences, English, Hindi.

Professional Experience

Teradata R&D India   (June-Nov 2015)
Software Engineer (II)
Over the course of 6 months (Jun15 Nov15) in Teradata, I got to work on all phases of software development and test life cycle for Teradatas database systems. I worked on a new in-demand feature of designing optimised connectors of different database ecosystems such as teradata, hadoop, oracle, etc.
I coded one of the core logical components of the feature and also played a key role in the design as well as testing of the feature. While Working on these projects, I became well versed with advanced C/C++ programming, shell scripting & tools like eclipse and gdb.

National Institute of Technology, Rourkela   (July '14-May '15)
Teaching Assistant
I have been a teacher's assistant for C and C++ laboratory courses of fresher's students at my college.

Final Year Projects

Improved Techniques for Review Spam Detection   (Jan-April 2015)
Under mentorship of Jitendra Rout and Prof. Sanjay Kumar Jena
Investigated spam in reviews and proposed a set of effective features for model building using the well known classifiers such as decision tree, naive bayes and SVM. I also devised an unsupervised method of review spam detection using k-NN clustering on unlabelled dataset collected from Amazon.com.

Sentiment Analysis of Social Media   (Aug-Nov 2014)
Under mentorship of Jitendra Rout and Prof. Sanjay Kumar Jena

Analysed human expressions/sentiment, that have taken digital form, programmatically and with accuracy. My work takes into account the sentence constructs and the way the sentences are framed, to detect and handle negations, intensifiers, neutralisers and contradictors occurring in the sentences.

Internships Undertaken	**Virtual Labs - API toolkit development**

Summer Internship at Virtual Labs (IIIT Hyderabad) Software stream.   (May-June 2013)
Under mentorship of Chandan Gupta and Prof. Venkatesh Chopella
Our goal was to create a Lab Developer Kit (API tools) for the educational website of Virtual Labs.

Analysis of States education systems using Data Mining techniques
Winter Internship Programme in Technology Supported Education   (Dec 2012)
Under mentorship of Prof. Bhiksha Raj and Prof. Rita Singh from Carnegie Mellon University, USA
A project based on clustering states according to their performances in the field of education using data mining techniques.

Supporting Arrays in Structured Architecture Synthesis Tool(SAST)
Summer Internship at IIT Kharagpur   (May-June 2012)
Under the mentorship of Prof. C. R. Mandal The project was based on formulating ideas and implementing changes in the existing source codes in c programming to support the SAST machine for an array of variables as opposed to single variables.

Course Projects

- **Document similarity and semantic analysis**
  Data Mining - Course Project under Prof. Korra Sathya Babu
  A project on text mining based on inverse document frequency using the vector space model and parts-of-speech tag.

- **TwitMiner**
  A contest by IISc Bangalore
  It was a challenge of binary classification of tweets into genre of sports or politics. I used a hierarchical classification model using Fisher Score based NB and SVM.

- **Courier Management and Tracking system**
  Database Management Systems - Course Project under Prof. Sujata Mohanty
  Designed a project on Courier Management and Tracking using PHP and MySQL

Skill Set

Programming Languages:	C, C++, Python, Java
Platforms:	Linux, Windows
Web Development:	HTML, CSS, PHP, Javascript
Other Tools & Softwares:	Matlab, SQL, LATEX, Weka, LightSIDE, Git
	https://github.com/smritisingh

Positions of Responsibility

Joint Secretary, Student Placement Coordinator, NIT Rourkela   (2014-2015)
Acting as liaison between the institute placement cell and the campus recruitment teams of companies.
Google Student Ambassador   (2014-2015)
Learn about innovative Google products and programs. Plan and host events on campus, acting as a campus contact.
Co-convenor, Microsoft Campus Club of NIT Rourkela   (2013-2014)

Conducting events such as Technical quizzes, Codenigma coding events, App-a-thon, Tech Seminars and workshops

Core team member and **Coordinator** of TEDx NIT Rourkela 12   (2013-2014)

Vice-President, Rotaract Club   (2012-2013)
Youth wing of Rotary International) of NIT Rourkela.

Member of Institute Swimming Team   (2012-2015)
Won silver medals at Institute level.

Hobbies	• Competitive Coding : Codechef, Spoj
	• Swimming and playing tennis/ squash
	• Reading newspaper, tech magazines

Research Experience

Construct based Sentiment Analysis Model
with *Jitendra Rout* and *Sanjay Kumar Jena*
Attended the *International conference on futuristic trends in computational analysis and knowledge management, Amity International, Noida*

Online Review Spam Detection using Supervised Learning Approach
Co-Authored with *Jitendra Rout* and *Sanjay Kumar Jena*
Submitted to *NeuroComputing Journal*

Date of Birth   22nd August, 1991

Languages   English, Hindi