

Puneet Singh Ludu

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Education

Master of Science in Computer Science, State University of New York, Buffalo **GPA: 3.482** **2014**
B. Tech. in Computer Science, Jaypee Institute of information Technology, Noida **2010**

Skills	Adept	Working Knowledge
Languages	Java, C, Perl	C++, C#, Matlab, Python
Web Technologies	HTML, Javascript	PHP, Ruby on Rails, jQuery, CGI, JSP
Big-Data Technologies	Apache Pig	Apache Hadoop, Apache Solr, MongoDB

Independent Projects

Cofounded Gridbits, a services and products company that makes Android, iOS and web applications. Hyroo.in is the first product that helps the costumers rent cars online in India.

ShortCleaner: A JAVA library to clean tweets for consuming it for various kinds of analytics.

jTextBrew: A JAVA library for fuzzy string matching, based on TextBrew algorithm by Chris Brew.

Experience

Research Engineer, July 2011 - July 2013, Innovation Labs, TATA Consultancy Services – Delhi

- **Event Detection in Time Series**: (*Technology and Tools used: Java, Python, Perl, Shell Scripts, Rapidminer*)
 - Worked on a research project involving *multivariate time series with application to classification of events*.
 - Devised an algorithm based on Shape Context for finding frequently occurring patterns and events, with as good results as SAX, DTW etc. with 7% better results in the particular domain of car sensors.
- **Data Harmonization Framework (DHF)**: (*Technology and Tools used: Java, Apache Pig, XML*)
 - Implemented an *ETL framework* that exploits the power of map-reduce and big-databases to fuse incongruous enterprise data from disparate sources in near real time.

Software Development Engineer, December 2010 - June 2011, TATA Consultancy Services – Trivandrum

- **Trainee Evaluation System**: Lead team of two, into the development of 'Trainee Evaluation System' as a part of Moodle plugin, deployed in TCS Trivandrum training center. (*PHP, MySQL, jQuery*)
- **Resource planning and Scheduling system**: Developed solution for managing infrastructure resources and scheduling lectures. (*PHP, MySQL*)

Conferences and Publications

Puneet Singh et al., "Architecture for Automated Tagging and Clustering of Song Files According to Mood", IJCSI, 2010

Puneet Singh et al., "PSLOS: Command Line Interpreter and Virtual File System", ICCV, 2008.

Academic Projects

■ **Inferring gender of a Twitter user using celebrities it follows** (*Java, Python, Perl, Google API, Apache Pig*)

This project classifies gender by leveraging observable information such as the tweet behaviour, linguistic content of the user's Twitter feed and the celebrities followed by the user.

■ **Quena- A Question and Answering system** (*Java, Apache Solr, Stanford NER, Stanford POS tagger, Apache Pig*)

Indexed 1.6 Million Wikipedia documents, designed a question parser and a ranking algorithm based on popularity.

■ **Clustering of songs according to mood** (*Matlab, Perl, C#*)

Using music information retrieval techniques, extracted several features from songs and designed an algorithm, to cluster songs based on moods.

■ **English to Hindi Translation and Transliteration** (*C, Gambas*)

Translation and Transliteration tools developed in using *Hidden Markov Model* based approach for POS tagging and later translating, while rule engine based approach for Transliterating.

■ **PSLOS – Virtual File system with a CLI** (*C*)

Virtual file system using K-ary data structure. Won 6th position in IC3 2008.

Courses

- Information Retrieval
- Machine Learning
- Seminar on Deep Learning
- Text mining and Web Content Analysis
- Distributed Systems
- Data Integration
- Software Engineering Concepts
- Data Structures and Algorithms
- Natural Language Processing
- Artificial Intelligence

GitHub

<https://github.com/puneetsl>

LinkedIn

<http://goo.gl/kBn6Yo>