512 Veteran Ave, Apt 113
Los Angeles CA 90024

BHARGAV PARSI

(424) 279-2705
bparsi@cs.ucla.edu
bparsi@g.ucla.edu

RESEARCH EXPERIENCE

Research Assistant, Intern **Ryerson University** **Summer 2016**

Analysis of Online Algorithms

- Took up the cow path problem and introduced certain variations in it to make it into a new problem. Developed new strategies, lower and upper bounds with Dr. Konstantinos Georgiou, Dept. of Mathematics, Ryerson University. Funded by Mitacs

EDUCATION

Los Angeles, CA **University of California, Los Angeles** **Fall 2017 – Present**

- MS in Computer Science
- Coursework: Machine Learning in NLP, Pattern Recognition and Machine Learning, Statistical Programming.

Dhanbad, India **Indian Institute of Technology (Indian School of Mines)** **July 2013 – May 2017**

- B.Tech in Computer Science and Engineering, May 2017. GPA: 9.44/10
- Coursework: Programming Language Concepts, Data Structures, Algorithm Design and Analysis, Operating Systems, Computer Networks, Artificial Intelligence, Database Management Systems, Software Engineering, Distributed Operating Systems, Data Mining, Information Retrieval

PROJECTS

- **Genetic Algorithm for Automatic Test Pattern Generation** (April 2017). Implemented a genetic algorithm for test pattern generation and compared its performance with random ATPG. Python
- **Combined Center Symmetric Local Features Extraction For Image Recognition** (Dec 2016 – April 2017). Proposed novel descriptors for image and analyzed their performances with direct competitors such as CS-LBP, CS-LDP etc. on the CIFAR - 10 dataset. Python, Scikit Learn, Xgboost
- **Implementation of various Machine Learning applications** (July 2016 – Nov 2016). Implemented email spam classifier using kernel SVM, image compression using K-Means Algorithm, PCA to find lowdimensional representation of face images, Anomaly detection to detect failing servers in a networks and Collaborative Filtering for movie recommendation, Back Prop. for hand written digit recognition. MATLAB
- **Implementation of CDMA** (Aug 2015 – Nov 2015). Designed a simple GUI. MATLAB
- **Implementation of Network Clustering Algorithms** (Aug 2014 – Jan 2015). Studied various clustering algorithms and implemented them. NS2, Linux

ADDITIONAL EXPERIENCE AND AWARDS

MOOCs

- **Machine Learning with Big Data** (Aug 2017). Data analysis using KNIME and ML library of Spark.
- **Big Data Integration and Processing** (Aug 2017). Querying relational data on Postgres, NoSQL data on MongoDB, Exploring Splunk Queries, Spark SQL and Data Frames
- **Introduction to Big Data** (Aug 2017). Basics of big data, Hadoop and map-reduce on cloudera VM.
- **Introduction to Machine Learning** (May 2015 – July 2015). Basics of Machine Learning and different algorithms associated with it.

Awards

- **Best Paper Award** (June 2017) My paper on feature extraction was selected for the best paper award among 100 papers that were presented in the INDIA - 2017 Conference at Da Nang, Viet Nam. Springer.

Languages and Technologies

- C++; C; Python; MATLAB; Mathematica;TCL; MySQL;