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BHARGAV PARSI

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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

RESEARCH EXPERIENCE

Graduate Student Researcher **University of California, Los Angeles** **Oct 2017 – Present**

Nueronex Project - developing and sharing a miniaturized device that integrates multiple state-of-the-art capabilities for chronic neural recording and stimulation.

- Building a Website for the project.
- Developing a GUI in MATLAB to help non- computer scientists easily use the project software.

Research Assistant **Ryerson Univeristy** **May 2016 – July 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. Funded by Mitacs.

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, image compressor, lowdimensional representation of face images, Anomaly detection to detect failing servers in a networks and movie recommendation, 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), Big Data Integration and Processing (Aug 2017), Introduction to Big Data (Aug 2017) Introduction to Machine Learning (May 2015 – July 2015).

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;