NIKHIL METTUPALLY

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EDUCATION

M.S. in Computer Science **University of Alabama in Huntsville** GPA: 3.9/4.0 Aug 2016 – Dec 2018

B.E.(Hons.) in Electronics and Communications **BITS Pilani, India** CGPA: 3.0/4.0 Aug 2011 – May 2015

SKILLS

Programming Python C++ Java HTML/CSS SQL JavaScript

Developer Tools CUDA Tableau TensorFlow Keras KNIME Visual Studio MATLAB IXIA

Key Courses Machine Learning Data Mining Big Data Analytics Neural Networks Artificial Intelligence and Game Development Software Engineering Computer Networks Cryptography

PROJECTS

- **Implementation of Neural Networks and Data Mining Algorithms:** Implemented algorithms like Kohonen maps, k-nearest neighbors, LDA and QDA in python.
- **An Empirical Evaluation of Kernel-PCA coupled Classification methods:** Created a classification model that matches the existing classification techniques on the Online News Popularity dataset and outperforms the current techniques on the EEG Eye-state dataset (Technology used: Python)
- **Comparative study of PCA and LDA:** Analyzed the classification accuracy of the two algorithms on Open source datasets. (Technology used: Python)
- **Visualizing time-series data using D3js:** Created two visualizations to represent the vehicle dataset provided by the Visual Analytics Community using D3js, python.
- **Software Engineering Case Study:** Analyzed and designed requirements for software applications. Prepared use cases, test cases to verify their integrity and functionality. Applications include Square Cash, Wells Fargo Mobile Application, Skype.
- **EEG Signal Processing using MATLAB:** Processed the raw EEG signals, Classified the signals using machine learning technique SVM and obtained classification rate of 95%. (Technology used: MATLAB)

EXPERIENCE

Graduate Teaching Assistant — University of Alabama in Huntsville — Jan 2018 – Present

- Responsible for assisting undergraduate students in Unix (CS390) and Operating Systems (CS490) courses

Research & Development Engineer — NOKIA, Bangalore, India — Jul 2015 – Jul 2016

- Responsible for the Integration and Verification of the Transport Module in SRAN (Single Radio Access Network) Team. Experience working in an agile environment with test-driven development.
- Part of the SRAN Automation team, worked on ROBOT (Automation framework) and developed libraries in python to test the Web-based software. Key involvement in test case automation.
- Worked on telecommunication features such as LTE protocol stack, QoS, IPSec, IP traffic measurement techniques, User equipment(UE) Handover scenarios, Load balancing and Power optimization.
- System robustness testing using IXIA traffic generators for transport protocols
- Installed and tested the MACG (Massive Android Call Generator) Server to make remote test calls.
- Experience with configuring firewalls, Cisco switches, routers and Unix based SUN-servers.

Project Trainee(Intern) — Center for Artificial Intelligence and Robotics (CAIR), India — Jul 2014 – Dec 2014

- Empirical evaluation of Convolutional Neural Networks (CNN) on large scale videos using image datasets in application to Human Activity Analysis.

PUBLICATIONS

- Mettupally, Nikhil and Dr. Vineetha Menon (2018). “InstaPark-Smart Parking Solution”. In: *4th Annual Research Horizon Day, Appeared in April*.

LEADERSHIP

- Event programmer at the Association of Campus Entertainment (ACE), UAH
- Volunteer in the Office of Student Life at University of Alabama in Huntsville
- Treasurer, IEEE Student Branch at BITS-Pilani, Hyderabad