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 C | Python | C++ | Java | HTML/CSS | SQL | JavaScript

Developer Tools CUDA | OpenCV | Tableau | TensorFlow | Keras | KNIME | Visual Studio | MATLAB | IXIA

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

PUBLICATIONS

- Mettupally Nikhil ; Menon, Vineetha (2018). "InstaPark-Smart Parking Solution". In: ***4th Annual Research Horizon Day***, *Appeared in April, Secured **first** place.*
- Mettupally, Nikhl; Menon, Vineetha(2018). "InstaPark-Smart Parking Solution". In: **Alabama EPSCoR Science and Technology Openhouse (2018)**, *Appeared in September, Secured **second** place* in Graduate Master's Division.

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)

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, 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 grading and assisting undergraduate students in Algorithms (CS317), Data Structures (CS221), 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.
- Installed and tested the MACG (Massive Android Call Generator) Server to make remote test calls.

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.

AWARDS

1st prize in College of Science Awarded at the UAH's 4th Annual Research Horizon Poster Presentation

Alabama EPSCoR, 2nd Place Graduate Division Awarded 2nd place at the Science and Technology Open House (STOH) 2018 Poster Presentation sponsored by Alabama EPSCoR.