

# RAJITHA BHAVANI KANTHETI

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## EDUCATION

### Clemson University

GPA: 3.80/4.00

Master Of Science, Computer Engineering

May 2021

Thesis: "Measuring the efficiency of classification algorithm on traffic sign dataset", Advisor: Dr. Sally A. Mckee

Courses: Artificial Neural Networks, Computer Vision, Statistics using R programming, Software Engineering, Data Analytics

### Jawaharlal Nehru Technological University

GPA: 3.66/4.00

Bachelor Of Science, Computer Science and Engineering

May 2018

Courses: Database Management Systems, Design and Analysis of Algorithms, Unified Modeling Language, Web Development, Object Oriented Programming, Cloud Computing, Distributed Computing, Operating Systems

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, Objective-C, C#, GoLang, EmberJS, ReactJS, HTML/CSS, JavaScript, PHP, XML, Node.js
- **Database:** Elastic Search, PostgreSQL, MYSQL, AWS
- **Tools:** Agile Scrum, Atlassian Jira, Visual Studio, GIT, Mercurial, IntelliJ

## EXPERIENCE

### Software Development Intern

Avalara

Technology- Python, Google Colab, NLP, CNN, PyTorch, Atlassian Jira, GitLab

Jan 2021 to Present

Working in an Agile based environment to Implement signature detection and verification system on identity documents using natural language processing. Evaluating and improving the blind set with an initial expectation of 80% precision and recall.

### Graduate Research Assistant - Autonomous f1 tenth race car project

Clemson University - ECE Department

Technology- Python, ROS, Google Coral, CNN, GAN, Tensor Flow

Oct 2019 to Present

Implementing data augmentation techniques like pix2pix, DCGAN, cycleGAN and WGAN on CNN classification algorithm using German Traffic Sign Recognition Benchmark in tensorflow, resulting in improvement of classification accuracy from 95% to 99% and production of unbiased traffic sign dataset.

### Member Technical Staff (Full Stack Developer)

Zoho Corporation Pvt Ltd

Technology- Java, EmberJS, Postgres, Elasticsearch, Agile, REST APIs, GIT, Mercurial

June 2018 to June 2019

- Designed threat intelligence feature on the product Event Log Analyser, which lets the user receive instant alerts when malicious IP sources interact with their network, using distributed file systems to store STIX/TAXII and AlienVault OTX, which helped the product generate 1.5 million revenue that year.
- Worked on the product Cloud Security Plus on collecting, monitoring and analyzing log data to provide insights on activity happening in the AWS, salesforce environments, developed using Agile Scrum methodologies.

## PROJECTS

### MeTube

Technology- HTML5, CSS, PHP, JavaScript, MySQL

Modified version of Popular YouTube system. The content of MeTube system includes graphics objects, video, audio, images and animation clips. We have created our website using WAMP server and tested it on Apache server.

### Segmentation Using Active Contours

Technology- C/C++ programming, Active Contours, Visual Studio

Designed an interactive GUI for implementing active contours using snake algorithms like balloon and rubber band, using image gradients, texture analysis and internal and external energies.

### AEP Classification using Multi Layer Feed Forward ANNs

Technology- Python, Keras, NumPy, Pandas, Tensorflow

Using GDR equations as the basis, I developed a Multi Layer Feed Forward ANNs on MUSC's EEG waveform dataset. Tuning different values of bias and momentum, I obtained 95% accuracy.

### Smart Watch Predicting D Vitamin levels

Technology- IOT, NodeMCU, MIT app inventor

Smart watch that determines how much and at what time a person requires sun in order to obtain enough amounts of D Vitamin.

## PUBLICATIONS AND CERTIFICATIONS

- Kantheti, Rajitha Bhavani. "Smart Watch to Detect Levels of Vitamin D." International Research Journal of Engineering and Technology (IRJET) , vol. 07, no. 05, May 2020, doi:<https://irjet.net/archives/V7/I5/IRJET-V7I5936.pdf>.
- IBM Data Science Professional Certification
- Agile Development with Atlassian Jira by coursera
- 'Introduction to Site Reliability Engineering and DevOps' Certification by LINUX Foundation