# Rahul Reddy

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## EDUCATION

- **University of Florida** — Gainesville, FL, USA
  *Masters of Science - Computer and Information sciences* — *August 2022 - August 2024*
  **Courses:** *Analysis of Algorithms, Distributed Operating Systems, Mathematics for Intelligent systems*

- **Vellore Institute of Technology** — Vellore, India
  *Bachelors of Technology - Electronics and Communication Engineering; (GPA: 9.06/10)* — *June 2018 - May 2022*
  **Courses:** *Operating Systems, Data Structures and Algorithms, Object Oriented Programming, Machine Learning, Database Management Systems*

## SKILLS SUMMARY

- **Languages**: Python, C/C++, JavaScript, JAVA
- **Database Technologies**: SQL, MySQL
- **Tools, Frameworks and Platforms**: AWS, GIT, Node.JS, Flask
- **Libraries**: React, Bootstrap,TensorFlow, Pandas, Numpy, Matplotlib, NLTK, OpenCV, scikit-learn
- **Soft Skills**: Teamwork, Time Management, planning, communication skills

## EXPERIENCE

- **Globalink Research Internship - Mitacs** — University of Manitoba, Canada
  *Machine Learning Intern* — *May 2021 - August 2021*
  - : Worked on the project **Advances in Accoustic Imaging Algorithms** in **python** language under Prof. Ian Jeffrey.
  - : Constructed a G matrix from the given data of electromagnetic object.
  - : Performed forward solver on the G matrix using feed forward neural networks.
  - : Calculated Inverse solver problems by reverse enginnering the forward solver techniques.

## PROJECTS

- **Fitness Website to browse numerous categories of exercises with demonstration**:
  - : Developed and deployed a fully responsive fitness website using **React**, **Node Js**, **tailwind CSS** and **Rapid API**.
  - : Implemented React file structures and Hooks
  - : Built a user interface using **Material UI**
  - : The website provides **1000+ exercises** with practical examples which are fetched from **Rapid Api**

- **Mask Detection system and alerting shop keeper through alarm**:
  - : Collected mask data set from open repositories and preprocessing steps such as RGB to grey scale conversion, resizing and normalization.
  - : Performed onehot encoding and used Tensorflow network to train the model in which various CNN layers such as activation layer- relu, maxpooling, flattening and dropout.
  - : The trained model attained an accuracy of **97 percentage** .
  - : Then we incorparated pyttsx3 library to alert the shopkeeper through voice alert when a person without a mask is detected

## PUBLICATIONS

- **Multiclass Weapon Detection using Multi Contrast Convolutional Neural Networks and Faster Region-Based Convolutional Neural Networks -IEEE Xplore - 2nd International Conference of Emerging Technologies 2021 - INCET 2021**: we have used **Faster RCNN** and **MC-CNN** for detecting different weapons through CCTV footage
  Tech: **Python**, **Tensorflow**, **OpenCV**. The paper has obtained **100+ full text views**
  (https://ieeexplore.ieee.org/document/9456407)

- **Prediction of Bitcoin, Litecoin and Ethereum trends using state-of-art algorithms   IEEE Xplore - 2021 IEEE Mysore sub section flagship International Conference - MYSURUCON-2021**: Predicted the future trends of cryptocurrency by analysing the previous dataset of trends. Tech: **Python**, **Scikit**, **Seaborn**, **TensorFlow**. The paper has obtained **200+ full text views** (https://ieeexplore.ieee.org/document/9641735)

## HONORS AND AWARDS

- Eligible for MITACS Globalink Graduate Fellowship worth **15000 CAD** if pursued graduate studies at Universities in Canada.

- Finalist - Cognizant Big idea competition 2019 (south zone) - Our team stood among top **20 out of total 500+ teams.**