Chandra Teja Tiriveedhi
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EDUCATION

University of Central Florida, Orlando, FL — Expected: May 2024
Master of Science, Computer Vision — GPA:3.4/4.0

Embry-Riddle Aeronautical University, Daytona Beach, FL — December 2021
Bachelor of Science, Computer Engineering

SKILLS

Programming Languages: C, Pandas, PyTorch, Java, HTML, Assembly Language Programming, SQL
Programs: Arduino, Verilog, Eclipse, Keil, MATLAB, MS Access, Microsoft Excel, Powerpoint
OS & Architecture: MacOS, Windows, ARM, RTOS, Linux
Courses: Computer Vision, Machine Learning, 3D Computer Vision, **Artificial Intelligence, Data Mining**

WORK EXPERIENCE

Qorvo,Inc. — Orlando, FL
Data Infrastructure Engineer Intern — May 2023- August 2023
- Created an infrastructure to ease data management and data analysis
- Worked on code release process using source code control system
- Performed data, code and release process analysis using code and data artifacts available to help improve performance

Zero G Horizon Technologies — Daytona Beach, FL
Software Engineer Trainee — March 2022-June 2022
: Explored modifying **Machine Learning** algorithms for image analysis.
: Utilizing **Python** and **MATLAB** to improve performance rate of Machine Learning Algorithms
: Design architecture diagrams for modifying **neural network** and Machine Learning Algorithms
: Perform software and code testing to identify and debug functionality issues and improve neural network performance

Floa,Co. — Daytona Beach, FL
Software Engineer Intern — February 2021- May 2021
- Programmed appropriate object detection sensors for the detection of Kayaking Boards inside a storage unit. Achieved accuracy of detecting Kayaking Boards with precise measurement from the storage unit door
- Utilized Particle IoT platform to program sensors for object detection
- Performed unit tests on the sensors utilizing a circuit board
- Worked on designing an embedded system using Node.JS, Vue.JS, Particle IoT

PROJECTS

Solar Images Defects: Graduate Research Assistant
Utilizing **deeplabv3** model with **resnet 101** backbone model and **PyTorch** library to identify solar defect images and their patterns using semantic segmentation technique. Electroluminescence solar images dataset is being used on the pre-trained deeplabv3 model to help in identifying defects of five different classes closed crack, resistive crack, isolated crack, contact corrosion, beltmarks contact.

Sea Turtle Technology: Research Assistant
Utilizing Keras RetinaNet algorithm and **TensorFlow** library to identify individual sea turtles and their characteristics such as species and gender. Sea turtles will be detected using unmanned aircraft Applied Aeronautics Albatross. Assisting in integrating a payload onto the aircraft that consists of Cameras, Jetsons, and Servos. Assisting with the integration of a communication protocol using MAVLINK to receive the data from Pixhawk to the images captured by payload.

Autonomous Ground Vehicle Robotics Project: Member of 10-person team
Utilizing **Classical Computer Vision** for pothole detection and path planning. Assisted in the programming of simulation using **Gazebo**.

IEEE Drone Swarm Project: Drone network Team Lead
Leading a team of 10 people to work on a drone product for an autonomous drone swarm show. Leading the drone network team responsible for designing communication protocols using **MAVLINK** to send and receive drone messages data such as altitude, pressure.

Biomarker Identification Project: Individual
Applying combinatorial multi arm bandit feature selection algorithm to identify optimal features in breast cancer dataset. Testing for Robustness on this algorithm using baseline models such as random forest and decision tree. Utilizing **Pandas** library to visualize data. Achieved 92.7% robustness accuracy on random forest model and 91.4% on decision tree model

When2meet website design: Member of 5-person team
Designed alternate version of When2meet website. Alternate version had resume and skills parser to create groups with compatible skills for projects. Designed front end using HTML and Javascript, front end page displayed meeting times selected in color to communicate with the backend algorithm of determining the best meeting times. Utilized **Python** and **Pandas** library to read a CSV file generated from the meeting algorithm to convert to webpage. Meeting algorithm determines the best meeting times. Utilized **Scrum** process and **Agile** methodology.

HACKATHON EXPERIENCE

Additional Financial Arena Data Science Competition — Orlando, FL
Individual Participant, Awarded 3rd Place — February 2023
- Performed data cleaning and analysis on historical credit card payments data.
- Trained machine learning models such as Random Forest, Decision Tree, SVM, logistic regression to predict credit card delinquency.