Adithya Ravi

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EDUCATION

Clemson University — *Clemson, SC*
Master of Science in Computer Science, CGPA: 3.77 — *Expected: Dec 2023*

Easwari Engineering College (Anna University) — *Chennai, India*
Bachelor of Engineering in Computer Science and Engineering, CGPA: 8.02 — *May 2021*

WORK EXPERIENCE

Web Developer Intern — *Mar 2020 – Sep 2020*
CFT Ventures Private Limited — *Chennai, India*

- Developed front-end web applications using WordPress.
- Creating and maintaining technical documents for content marketing services using the OptinMonster plugin.
- Designed and implemented web components using existing ASTRA designs templates.
- With a team of 4 interns, using AdvancedCSSEditor plugin improved readability of the website and maintained a document that guides the website's architecture, which reduced the complexities by 20%.

Student Trainee — *December 2019*
Barola Technologies — *Chennai, India*

- Gained knowledge on Objected C programming and gave an insight into the functioning of current systems and how they could be changed in future.
- Gained understanding of Arduino Uno board by closely monitoring the code on which they work and the peripherals.

ACADEMIC PROJECTS

Trail of Terror
(*Technologies Used:* Python, *Libraries*: turtle)

- Using Python, developed an interactive game with a basic GUI that employs two design patterns: Singleton Creational design pattern and Factory Creational design pattern.

Heart attack prediction using Multi-Layer Perceptron model
(*Technologies Used:* Python, Libraries: NumPy, Pandas, SciKit, Seaborn, Matplotlib, TensorFlow)

- With a dataset downloaded from Kaggle, a multi layer perceptron model with 6 hidden layers was developed to train the model with the training dataset and 88% accuracy prediction on the test dataset was produced.

Mask detection using transfer learning
(*Technologies Used:* Python, Libraries: OpenCV, NumPy, Pandas, Seaborn, Matplotlib, TensorFlow)

- A dataset including photos of masked and unmasked persons or people of all races/religions is used to train the model, which can recognize and determine whether a person is wearing a mask in real time using a webcam.

Fake news detection using Passive Aggressive Classifier:
(*Technologies Used:* Python, Libraries:NumPy, Pandas, SciKit, Seaborn, Matplotlib)

- Using scikit learn's Passive Aggressive Classifier, a model is trained to distinguish fake and legitimate news from the provided training dataset, and predictions are produced on the test dataset with 93% accuracy.

Online Aid For Detecting Brain Tumor And Tuberculosis Using Deep Learning
(B.E. Capstone Project, *Technologies Used:* Python, HTML, CSS, JavaScript)

- Designed a front-end for a web application and created convolutional neural networks such as ResNet and MobileNetV2 to detect brain tumors and TB using the user's X-ray/MRI data.
- ResNet was used to detect brain tumors and had an accuracy of 98%, whilst MobileNetV2 was used to detect tb and had an accuracy of 99%.

TECHNICAL SKILLS

Programming Languages:	Python, C++, C, HTML, CSS, JavaScript, SQL, Java
Tools, Technologies & Packages:	NumPy, Pandas, Keras, Tensorflow, Matplotlib, Seaborn, SciKit
Scripting Languages:	Bash

EXTRACURRICULAR ACTIVITIES

- Completed a few courses that were offered on Coursera like, “Introduction to Internet of things and Embedded Systems” and “The Arduino Platform and C programming ”certified by University of California, Irvine; “Programming for Everybody”, “Python Data Structures” and “Using Python to access Web Data” certified by University of Michigan and “AWS Fundamentals Specialization” certified by AWS.
- Certified on Kotlin basics offered on Udemy.
- Active member of the Computer Science International Community during my undergraduate.
- Served as a Volunteer Lead with Bhumi NGO for a year; assisted and coordinated with three special events for orphan kids to bring out their hidden talent, maintained clean, neat and operational facilities to serve program needs and coordinated food, clothing and household items for disadvantaged individuals and families.