Abhinav S. Tadi

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EDUCATION

University of South Florida — Tampa, FL
Bachelor of Science in Computer Science — Expected: May 2024
GPA: 3.93

EXPERIENCE

USF COGNITIVE AGING LAB — Virtual
Research Assistant — September 2022 - Present

- Working in a team to convert ATTR software that helps detect dementia in adults to a web based one. Using Natural Language Processing and state of the art BERT model we are looking to automate the entire process.

ACADEMIC SUCCESS CENTER USF — USF Library
Calculus Tutor — August 2022 - Present

- Help and solve student's doubts in Calculus 1, 2 and 3

GOLDMAN SACHS — Virtual
Virtual Experience Program — October 2020 - October 2020

- Gained first-hand experience in working in the shoes of a cybersecurist, cracked a list of hashes, brainstormed and suggested methods to improve security

PROJECTS

QuickBite – Food Carpooling @ShellHacks2022 – Python, MySQL, Kivy

- Used Kivy a Windows and Mobile front end app development python library and MySQL to develop a Food Carpooling App where students can order together and split the delivery fees/taxes. I was responsible for the entire front-end development of the app using Kivy.

CO2 Emission Predictor – Car CO2 footprint – Python, Sklearn, Matplotlib, Pandas, Numpy

- Used Multiple Linear Regression a concept of ML to predict the amount of CO2 generated by a car given requested input. The program used 2014 CO2 Emission by Car Model data available on the internet to train, and works with an accuracy of 89.49%

IoT Based Smart Irrigation and Real-Time Monitoring System – Arduino, C++

- Published Research Paper regarding project in IRJET, The Amplified Relevance of Internet of Things based Automated Farming in Post Covid-19 Times - https://www.irjet.net/archives/V7/i6/IRJET-V7I61386.pdf

Real-Time Heart Rate monitor and Notification System – Arduino, C++

- Developed using Arduino and a pulse sensor, the project detected any abnormal pulse changes over a period and using a set of criteria determined if it could be a Heart Stroke. I was responsible for the whole project.

SKILLS

MS Word, MS PowerPoint, MS Excel, Python, C, C++, Java, Kivy, HTML, CSS, JavaScript, Assembly RISC-V React.js, NumPy, Pandas, Matplotlib, Django, Tableau, PowerBi, OpenCV, Adobe Photoshop, Unix, MySQL

CERTIFICATIONS

- Data Science Certification - IBM Certified, InsideAIML

AFFILIATIONS

- SCP (Society of Competitive Programmers) — August 2021 – Present
- Girls Who Code (Professional Development Chair) — January 2022 – May 2022
- Data Science Club USF (E-Board Member) — August 2022 – Present

HONORS & AWARDS

- USF Green and Gold Presidential Scholarship
- Dean's List Scholar