Mariclaire De Guia

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EDUCATION

Texas Tech University   **May 2020 - August 2022**
BS in Computer Science, Minor in Mathematics   *Lubbock, TX*
- Whitacre College of Engineering
- Magna Cum Laude, 3.8 GPA
- Awarded with Honors from the Honors College

PROJECTS

Vehicle Occupant Classification – Deep Learning Model
Team Member
- Built a deep learning model in Python using the Keras library to classify images of vehicle occupants.
- Improved the model's average initial accuracy from 65.6% to 77.3% (an improvement of 11.7%) after applying added datasets and data augmentation.
- Researched and employed the Swish activation function to test possible methods for further improvement of the model's performance.
- Created Linux shell scripts to efficiently run test files using Texas Tech University's High Performance Computing Center.
- Collaborated with team members using GitHub and Git.

GhostPost – Learning Engagement Tool
Team Member
- Built front-end web application visuals and functionalities using Figma, JavaScript, HTML, CSS, and the React library to create a responsive platform for lecturers and audiences to communicate with each other anonymously.
- Conducted customer discovery reports to gauge pitfalls, anticipated benefits, and overall interest from our target demographic.
- Created project presentations and general design reports to communicate the team's progress to our instructor throughout the project's development.
- Took initiative to outline project goals, desired milestones for each team meeting, and an ideal timeline of the team's progress.
- Collaborated with team members using GitHub and Git.

Portfolio Website
- Built a responsive personal portfolio website deployed through Google Firebase using Figma, TypeScript, HTML, CSS, and the Angular framework.
- Planned aesthetically pleasing and effective designs to present important information.
- Researched and employed best practices for web accessibility.

SKILLS & TOOLSETS

JavaScript, TypeScript, HTML, CSS, Node.js, React, Angular, Figma, GitHub, Git, Python, Keras, Java, C/C++, Linux, Assembly, SQL, Firebase, Visual Studio Code, IntelliJ IDEA, Web accessibility

HONORS & INVOLVEMENT

Texas Tech University Google Developer Student Club, HackWesTx Participant, HACKUIOWA Participant, Texas Tech University President's List, Texas Tech University Dean's List