Ramya Sai Swathi Mangu

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Portfolio: https://ramyamangu.github.io/Ramya_Portfolio/

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE   **September 2021- December 2022**

Bachelor of Computer Science

- GPA: 3.6
- Specialized in Intelligent Systems
- Dean's Honors List Fall 2021, Winter 2021, Fall 2022
- Campuswide Honors Collegium (CHC)

EL CAMINO COMMUNITY COLLEGE   **August 2019- June 2021**

Bachelor of Computer Science

- GPA: 3.8
- Dean's Honors List Fall 2019, Spring 2020, Fall 2020
- Completed MESA (Mathematics, Engineering, Science Achievement Program)
- Completed Honors Program

TECHNICAL SKILLS

- C/C++
- Java
- Python
- JavaScript
- API
- NumPy, Tensorflow, Pandas,
- Keras, Scikit-learn
- HTML 5
- CSS
- Bootstrap
- React
- DOM Manipulation
- jQuery
- Git, Github
- NPM
- Node.js, Express.js
- MySQL
- Gosu
- Machine Learning
- Quantitative Analysis
- Network Protocols
- Information Retrieval
- Data Structures and Algorithms
- Guidewire (Billing Center)

EXPERIENCE

UNIVERSITY OF CALIFORNIA, IRVINE   **Irvine, CA**

Research Assistant   January 2022- December 2022

- Worked in the Medical Informatics lab of UCI to evaluate the performance of engines used as digital scribes in medical clinics.
- Processed the audio data files that are transcribed through different Automatic Speech Recognition (ASR) engines like Amazon and Google and create evaluation metrics to analyze the quality.
- Compared the engine's performances across different recording modalities.
- Used different ML models and python libraries to analyze the data.
- Co-author of the research paper for American Medical Informatics Association (AMIA).

PROJECTS

Search Engine
- Wrote a search engine from the ground up that is capable of handling tens of thousands of documents or Web pages, under harsh operational constraints and having a query response time under 300ms.
- Primary programming language is Python.

Brain Tumor Radiogenomic Classification
- Co-led a group of 5 to predict the genetic subtype of glioblastoma, a malignant brain tumor, using Magnetic Resonance Imaging (MRI) scans of patients to detect the presence of the MGMT promoter methylation genetic sequence.
- Primary programming language is Python and used binary classification as the base model.

HackUCI 2022 - Exerbuddy
- Created a web application that lets people find workout buddies based on their workout goals, interests and preferences.
- Primary programming language is Python for the backend and used the Firebase API.

Emotion Detection
- Built a BiLSTM model to detect emotion from twitter comments with an accuracy of 64%.
- Primary programming language is Python and used Keras libraries to build the model .

Tunnel Man Game
- Built a game that lets players dig and find gold coins, oils and avoid falling rocks and protestors who chase and shout at the player.
- Worked in C++ and used different data structures and algorithms.

PARTICIPATIONS

Girls Who Code and Accenture - Work Prep   **June 2022**

- Selected to participate in GWC's three-week career readiness program focused on technical workshops and professional development with senior leaders and engineers at Accenture.
- Learned about growth mindsets and how to take actionable steps towards my professional and personal goals.
- Workshops consisted of hands-on application and approach to learning suchwith Accenture volunteers.