Sahej Hira

SahejHira SahejHira SahejHira sahej.k.hira@gmail.com +91-9811268017

Education

Eternal University Sept 2021 - Present
Bachelor of Technology in Computer Science Engineering *Current CPI: 7.20/10.0*

Nava Hind Girls Senior Secondary School - July 2021
Higher Secondary Education *CBSE*

Nava Hind Girls Senior Secondary School - July 2019
Secondary Education *CBSE*

Skills

Languages: Python, HTML/CSS, JavaScript, TypeScript

Tools: Git/GitHub, Figma, Canva, MongoDB

Frameworks/Libraries: TensorFlow, Flask, NLTK, Firebase, Flutter, React, Node.js, Express

Core Concepts: Data Structures and Algorithms (DSA)

Projects

VFierce | *HTML, CSS, Javascript, Node.js* Jan 2024 - Jan 2024

- Developed Vfierce, a women entrepreneurship portal, designing and implementing responsive Home and About pages using HTML, CSS, and JavaScript.
- Integrated secure login and sign-up functionality with Node.js for user authentication.
- Focused on a user-friendly, visually appealing UI to enhance user engagement and platform accessibility.

Image Classifier | *TensorFlow(including Keras), TensorFlow Datasets, TensorFlow Hub, Python, Matplotlib, NumPy* Jan 2024 - Jan 2024

- Developed and trained a deep neural network using TensorFlow for image classification of flowers.
- Utilized TensorFlow Datasets and TensorFlow Hub for data handling and pre-trained model integration..
- Implemented a command-line application allowing users to predict flower names using a saved model.

Part of Speech Tagging with Hidden Markov Models | *Pomegranate,Python,NLP, PGM* Jan 2024 - Jan 2024

- Led the development of a Part-of-Speech Tagging project using Hidden Markov Models (HMMs), implementing a baseline Most Frequent Class (MFC) Tagger for comparison.
- Implemented and trained the MFC Tagger as a baseline and developed an HMM-based Part-of-Speech Tagger using the Pomegranate library.
- Conducted a thorough comparative analysis between the HMM Tagger and the MFC baseline.
- Achieved significant improvement with the HMM Tagger [training accuracy basic hmm model: 97.54%, testing accuracy basic hmm model: 95.95%] over the MFC baseline [training accuracy mfc_model: 95.72%, testing accuracy mfc_model: 93.02%], emphasizing the effectiveness of HMMs in enhancing Part-of-Speech tagging accuracy.

Ongoing work

QuestionBox.ai - *question paper and assessment generator powered by AI.}* Aug 2024

MenstWare - *An intuitive productivity cycle tracker tailored to align with the natural body clock of women, enhancing workflow efficiency and well-being.* Oct 2024

Coding Platforms

- **Leetcode** — *222+ problems*
- **Coding Ninjas** — *2007 points*