

Sriyan Madugula

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PROJECT EXPERIENCE

FAKE NEWS MODEL – Ann Arbor, MI

Python ML/AI Personal Project

Jan 2024 – Present

- Develop a Fake News Detector using advanced Natural Language Processing (NLP) techniques
- Utilize the Real and Fake News dataset from Kaggle to train the model, enhancing its accuracy and reliability
- Implement the BERT (Bidirectional Encoder Representations from Transformers) pre-trained machine learning model to perform precise classification of news articles
- Contribute to the ethical use of AI technology by addressing the societal challenge of misinformation, particularly in light of the upcoming presidential election

SKILLSYNC – Ann Arbor, MI <https://devpost.com/software/skillsync>

React.js Personal Project

Nov 2023 – Nov 2023

- Spearheaded the development of SkillSync, a peer-to-peer skill-sharing platform aimed at addressing job insecurity and promoting continuous learning in the dynamic job market
- Implemented OpenAI's GPT4 Turbo API for skill matching, enabling users to exchange skills proactively based on mutual learning goals
- Collaboratively developed the platform using React, establishing a user-friendly interface and incorporating a seamless integration of Firebase for database control and user authentication
- Contributed to solving the prominent social problem of job insecurity, particularly in the tech industry, by creating a platform that fosters collaboration, reduces the need for mass layoffs, and promotes professional development through peer-to-peer learning

MACHINE LEARNING PIAZZA – Ann Arbor, MI

C++ Academic Project <https://shorturl.at/svEJN>

Oct 2023 – Nov 2023

- Designed a machine learning classifier based on the Multivariate Bernoulli Naive Bayes model, which can be used to predict the topic of Piazza forum posts by analyzing the presence of specific words in the content
- Strengthened programming skills in C++ by implementing a binary search tree data structure and a map abstract data type, and by writing unit tests for code validation
- Demonstrated the ability to handle complex projects through working with Function Objects, Recursion, Container ADTs, Dynamic Memory, Linked Lists, and Iterators
- Gained experience in enhancing the testing environment using functional forms like unit testing, integration testing, and system testing for streamlined bug fixing

LEADERSHIP

HELIVOX - Troy, MI

Co-Founder, Software Engineer

Mar 2022 – July 2023

- Constructed www.helivox.com using JavaScript for creating 100+ catalogs of data on high school courses/clubs, ranging from time commitment to career preparedness, to forward diverse academic interests
- Organized a dedicated team of 7 article writers publishing advice for college applications through leading by example and delegating tasks based on experience and workload
- Expanded the catalogs and our USP to 15 additional schools throughout the nation in less than 6 months

EDUCATION

UNIVERSITY OF MICHIGAN – Ann Arbor, MI

Expected May 2026

Bachelor of Science Engineering, Computer Science; Cumulative GPA: 4.0/4.0

Sidney J. and Irene Shipman Scholarship/Society, Michigan Hackers, MRacing Autonomous

Relevant Courses: Discrete Mathematics, Algorithms/Data Structures, Probability/Statistics, Foundations of CS

SKILLS

C++, Java, Python ML/AI, React Frontend Web Dev, Git, CAD, MS Office, Strong Written/Verbal Communication

ADDITIONAL INTERESTS

Vintage Cars, Formula 1, Tennis, Infrastructure, Geography, the Internet, Neural Networks, and Astronomy