



SUMMARY

Results-driven and detail-oriented computer science graduate with a specialization in data science, machine learning, and AI. Adept at managing complex projects, driving innovative solutions, and leveraging advanced technologies to deliver impactful results. Highly adaptable with a proven ability to thrive in dynamic environments.

EDUCATION

Bachelor of Science in Computer Science

May 2024

New Jersey Institute of Technology

- Dean's List Spring 2020, Spring 2021, Fall 2023

EXPERIENCE

Founder & Project Manager

Jan 2024 - May 2024

VocalAIze Startup

Newark, NJ

- Initiated and directed the development of a web application designed to translate user voice into multiple languages while cloning the original voice
- Leveraged advanced speech recognition and machine learning technologies to provide seamless and accurate voice translations

Data Management / Analytics Intern

Jan 2024 - May 2024

Easy Event Planning

Remote

- Managed four projects involving search engine optimization, keyword research, and data scraping
- Developed and refined backend data logic to enhance the foundational structure of the website and improve results for users

PROJECTS

Foreign Whispers

- Developed an end-to-end solution for translating YouTube videos, integrating several NLP technologies
- Utilized OpenAI Whisper for audio transcription, Opus NLP for Spanish translation, and xTTS for speaker diarization and voice cloning, resulting in seamless and natural-sounding translated videos

UAV Detection and Tracking

- Designed a UAV detection system utilizing TensorFlow2 Object Detection API with a finetuned Faster R-CNN model
- Implemented a Kalman filter for trajectory tracking and compiled detections into a video, showcasing the drone's path

Toxic Text Classifier

- Finetuned a multi-label BERT model to detect toxic comments using TensorFlow and Hugging Face Transformers
- Built a comprehensive web application with Streamlit for classifying text into various toxicity categories or performing sentiment analysis, providing a user-friendly interface for real-time predictions

Predictive Modeling using Federal Reserve Economic Data (FRED)

- Trained neural network models using MLP and CNN architectures to predict U.S. retail sales from FRED data
- Conducted a comparative analysis between models, discovering similar overall performance

LEADERSHIP EXPERIENCE

Standards Board President

Sep 2022 - Dec 2022

Pi Kappa Phi Fraternity, Beta Alpha Chapter

- Reviewed and revised the chapter's code of conduct and educated members on the responsibilities of their membership
- Chaired all meetings of the Standards Board and ensured they were conducted with fairness and impartiality

Warden

Jan 2022 - May 2022

Pi Kappa Phi Fraternity, Beta Alpha Chapter

- Participated in the Pi Kappa Phi College for Chapter Officers in MA, a national leadership training conference for chapter officers across the nation
- Led the education of all associate members and facilitated the continued education of initiated members

KEY SKILLS

Programming Languages: Python, SQL, JavaScript, HTML, C++, C, Java, Linux Bash, Excel

Software Libraries: PyTorch, TensorFlow, Hugging Face, Scikit-Learn, Numpy, Pandas, Keras, OpenAI, Matplotlib, Seaborn

Languages: English, Spanish

Project Management, Data Analysis, Data Mining, Data Visualization, Predictive Modeling, APIs, Leadership, Creativity, Communication

CERTIFICATIONS

AWS Certified Machine Learning Specialty - In Progress, Digital Training Completed