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Education

Master of Science, **University of Central Florida**

January 2019 - December 2021

- Recently graduated with a master's in computer engineering with coursework focused on artificial intelligence.
- Studied machine learning, natural language processing, and computer vision techniques and applications.
- Gained experience with machine learning libraries such as TensorFlow, PyTorch, NumPy, and Pandas.

Bachelor of Science, **University of Central Florida**

December 2018

- Graduated from University of Central Florida with a Bachelor of Science in Electrical Engineering.
- Gained experience giving lectures and presentations in front of committees.
- Developed teamwork and leadership skills throughout multiple class projects.
- Experience working in a lab environment.

Major Projects

• **Interactive Chess Trainer**

- Smart chess board for senior design degree requirement project.
 - * Lead a group to research, design, develop, and build a smart chess board.
 - * Responsible for researching hardware components and developing multiple design strategies.
 - * Built working PCB microcontroller from design strategy using EasyEDA.
 - * Developed basic AI software to allow interactive playing experience.

• **Facial Recognition Software**

- Worked in a group to design a facial recognition software using a neural network.
 - * Responsible for design strategies to accomplish objectives.
 - * Designed a custom neural network and trained the model several datasets.
 - * Achieved 88% accuracy at detecting faces in camera view.

• **Drug Resistance In Tuberculosis**

- Worked on project to predict drug resistance of Tuberculosis.
 - * Researched and implemented various machine learning techniques.
 - * Gathered and preprocessed gigabytes of data for training and testing.
 - * Utilized feature engineering techniques to classify data by mutations.
 - * 85% accuracy in predicting whether a strain of Tuberculosis was drug resistant.

• **BERT-to-BART Summarization**

- Utilized extractive and abstractive NLP techniques to summarize biological research papers.
 - * Created new embeddings using Word2Vec, TF-IDF scores, and SBERT.
 - * Implemented ensemble of clustering algorithms to find the best embeddings.
 - * Designed a pipeline to send embeddings to the BART model for abstractive summarization.
 - * Achieved a ROUGE-2 score 3% lower than several state-of-the-art models.

Relevant Experience

Freelance Tutor

2016-2022

- Helped students improve their understanding of concepts in math, chemistry, and computer science.
- Increased students' performance by 1-2 letter grade(s).

Skills

- Proficient in Python, C, JavaScript, and Matlab
- Experience working in a Linux environment
- Experience with data mining and feature engineering
- Programming experience on microcontrollers