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EDUCATION

University of California, Los Angeles (UCLA)

September 2020 - January 2023

Bachelor of Science in Electrical Engineering

GPA: 3.713

Coursework: Digital Signal Processing, Data Science & Machine Learning, SQL for Data Science, Data Structure, Graph Theory, Analog Electronic Circuits, Logic Design of Digital Systems, Probability and Statistics

TECHNICAL SKILLS

Programming: Python, C/C++, Matlab, SQL, Java, Verilog
Open-source Framework: TensorFlow, OpenCV
Other Tools: Latex, Adobe Premiere Pro, Adobe Audition
Language: Vietnamese, English

EXPERIENCE

UCLA Speech Processing and Auditory Perception Lab

June 2021 - September 2021

Undergraduate Research Assistant

Los Angeles, California

- Trained an End-to-end model using Automatic Speech Recognition (ASR) with Transformer
- Filtered signals and analyzed data
- Collaborated with a Ph.D student to enhance the accuracy of the model

PROJECTS

Handwritten Digits Recognition | Python / C - STM32 H743ZI2

2021

- Created and trained a machine learning model to classify handwritten digits in Python.
- Designed and developed the Convolutional layer, Max pooling layer and Dense layer in C.
- Embedded the weights and biases of the pre-trained model into the Microcontroller STM32 H743ZI2 board.

Spam Email Classification | Python - Jupyter Notebook

2021

- Analyzed the words appearances and calculated their probabilities based on Naïve Bayes Theorem.
- Optimized the model by using Scikit-learn library.
- Achieved the accuracy of 97%.

House Prices Prediction | Python - Jupyter Notebook

2021

- Extracted, analyzed and visualized the dataset.
- Developed a data transformation to optimize the Linear Regression Model.
- Built a valuation tool for the prices prediction.

Line Following Robotic Car | MSP 432, C++

2020

- Utilized MSP432 microcontroller to operate a line following car robot to follow designed curved path.
- Completed a round trip in 9s for a track with 52 5/8 inches long and about 6 1/8 inches wide.

Fire Warning Device | Micro-controller 8051, C

2016

- Developed an electronic device using Micro-controller 8051 to control some environmental conditions.
- Programmed to measure temperature, humidity, gas, current and displayed on a LCD soldered on the circuit.

AWARD

Encouragement Scholarship

2013-2014

Da Nang University of Science and Technology

Da Nang, Vietnam