

# NHA DO

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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

<b>Programming:</b>	Python, C/C++, Matlab, SQL, Java, Verilog
<b>Open-source Framework:</b>	TensorFlow, OpenCV
<b>Other Tools:</b>	Latex, MS Office, Adobe Premiere Pro, Adobe Audition
<b>Language:</b>	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

**Diseased Leaf Detection Deployed on Embedded System | Python / C - STM32 H743ZI2**

**2022**

- Proposed an effective approach to fit the dataset and enhance model's accuracy under 1MB memory constraint.
- Optimized the weights and biases when deploying the model on embedded system.
- Implemented successfully the 2D CNNs with high accuracy.

**Diseased Leaf Detection and Classification | Python**

**2022**

- Collected, extracted and analyzed data using Pandas, NumPy libraries.
- Created and developed an Ensemble Learning of EfficientNetB7 and Exception model.
- Enhanced the model accuracy by taking the average values to achieve 96%.

**Spam Email Classification | Python**

**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**

**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.

## CERTIFICATIONS

**Computer Vision Course**

**2022**

*Udemy Academy*

**Master SQL for Data Science**

**2021**

*Udemy Academy*