KORNKARNJANA SAPIANCHAI (GOLF)

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SKILLS

Python   C/C++   Javascript   HTML5/CSS   MATLAB   pandas   numpy   scikit-learn

EDUCATION

Bachelor of Science in Computer Engineering
Texas A&M University, College Station TX, 2016 - 2020
Honors: magna cum laude (GPA: 3.73/4.0)

International Baccalaureate (IB) Diploma Programme
UWC Thailand, Phuket Thailand
Graduated in 2016

PROJECTS

Measurement Gloves - Senior Capstone Project
- Designed and implemented pressure sensitive gloves used to measure drone pilot's stress levels during flight.
- Redesigned existing prototype gloves by improving usability and functionality of the gloves.
- Utilized Arduino microcontroller boards for glove circuit and developed mobile application with Flutter framework for real-time monitoring of pressure data.
- Worked in a 3-person team utilizing software development life cycle including product concept, critical design review, deployment, testing, user acceptance and presentation.

Self Help Scientists – Principles of Data Science
- Investigated mental health in the tech industry by exploring survey responses to mental health through data processing and exploratory data analysis.
- Utilized data visualization tools such as matplotlib, seaborn and word clouds to picture and infer useful conclusions.

Dealing with Imbalance in Computer Vision – Machine Learning
- Evaluated different machine learning models (convolutional neural networks, random forest classifier and logistic regression classifier) used in image recognition tasks.
- Trained models on a dataset with linear and step imbalances to mimic real-world classification labels and evaluated the models using metric evaluation scores (F1, AUROC).

What's for Lunch? – Information Storage and Retrieval
- Developed a program that scrapes an online menu and retrieves the latest information available.
- Utilized the scrapy framework which crawls through each linked restaurant in an area code provided by the user.
- Implemented search functionality and built a GUI to parse and present results to user clearly.

RELEVANT COURSEWORK

Discrete Structures for Computing
Data Structures and Algorithms
Introduction to Computer Systems
Signals and Systems
Computer Architecture and Design

Programming Studio
Digital Integrated Circuit Design
Communications and Cryptography
Microcomputer Systems
Computer and Network Security

Information Storage and Retrieval
Principles of Data Science
Machine Learning
Computer Systems Design

LEADERSHIP EXPERIENCE AND ACTIVITIES

Thailand National Swimmer (2015 - present)
- Multiple-time medalist and finalist at Southeast Asian and Asian Games
- Texas A&M University Division I Women's Swimming Team
- Multiple SEC Academic Honor Roll and First-team Scholar All-American Honors
- Committed approximately 30 hours per week to training, meetings, travel, and competitions while maintaining full course load
- Developed leadership, strong work ethic, and perseverance to meet personal and team goals