YU-CHUN (WINNIE) CHEN

A recent UC Berkeley MEng graduate in EECS with extensive experience of data & ML model pipelines as well as effective communication skills.

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PROJECTS

Robustness in Implicit Deep Learning - *October 2020 – May 2021*

- Develop a robustness analysis framework on image recognition tasks with different types of adversarial attacks against deep learning models

Hateful Post Classification - *March 2020 - June 2020*

- Design and engineer an original information network of Reddit posts & users to detect posts and communities with hateful speeches

Malware Classification - *January - March 2020*

- Engineer and analyze different information networks of Android applications to classify malwares by re-implementing paper *HinDroid*

DOTA 2 Game Prediction - *December 2019*

- Analyze and feature-engineer hero composition data to determine DOTA 2 game results

WORK HISTORY

University of California, San Diego - ***Data Science Tutor***
La Jolla, California • 01/2018 - 06/2020

- Support students in their thought process and help build their problem-solving skills by performing individual/group tutoring
- Assist instructors with course planning and functioning

China Construction Bank Fintech - ***Database Engineer Intern***
Shanghai, China • 07/2019 - 08/2019

- Developed PySpark programs that analyze over 500,000 pieces of payment data from Alipay daily, filter out fraud payments, and detect possible money laundering

Cornupay - ***Data Science Intern***
Xinjiang, China • 08/2018 - 09/2018

- Designed and developed an original program to predict money amount loaned by platform users with statistical tools

EDUCATION

University of California - Berkeley
Berkeley, CA • May 2021

M.Eng.: Electrical Engineering & Computer Science – Data Science and Systems

University of California - San Diego
La Jolla, CA • June 2020

B.S.: Data Science

B.S.: Management Science

SKILLS

Business Problem Formulation
Data Mining
Exploratory Data Analysis
Data Visualization
Feature Engineering
Machine Learning Model Development
Model Evaluation
Optimization Engineering

TOOLS

Python:
Pandas, NumPy, Request, Scikit-Learn, PySpark, BeautifulSoup, PyTorch

Machine Learning:
Linear/Logistic/Ridge Regression, SVM, Ensembles/Boosting, PCA, Deep Neural Network

Data Visualization:
Matplotlib, Seaborn, ggplot, Tableau, Infogram

Software:
Jupyter Notebook, Git, AWS

Other Programming Languages:
SQL, Java, R