YI-TING(NOAH) HUNG

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EDUCATION

Purdue University — West Lafayette, IN
Master of Science in Joint Computer Science and Statistics — *Sep 2021 - Present*
- Relevant Coursework: Machine Learning, Introduction to Optimization, Database, Algorithm Design, Analysis, and Implementation, Data Mine

National Taiwan University — Taipei, Taiwan
Bachelor of Engineering in Bioenvironmental Systems Engineering — *Jun 2020*
- Cumulative GPA: 3.94/4.3 (Distinction), Rank: 4/45
- Relevant Coursework: Big Data Analysis, Statistical Learning, Linear Algebra, Advanced Statistics
- 4th National Taiwan University Undergraduate Best Paper Award

WORK EXPERIENCE

Research Assistant (Supervisor: Prof. Guo, Qi) — Jan 2022 - Present
Purdue University, Department of Electrical and Computer Engineering — *Indiana, United State*
- Executed CNN model on depth sensing with confidence map under adverse weather in **Pytorch**.
- Utilized deep learning framework, **Pytorch**, to classify over 1 million diverse lidar dataset for depth map.

Research Assistant (Supervisor: Prof. Liao, Kuo-Wei) — Jul 2019 - Jul 2021
National Taiwan University, Department of Bioenvironmental Systems Engineering — *Taipei, Taiwan*
- Applied SVM and random forest to solve agri-business problems with weather-related insight.
- Utilized **Python** to implement SVM on 1TB unstructured data which enhanced **20%** maximum productivity.
- Deployed a time series detection engine in **Python** to effectively inspect the abnormality among 2TB various dataset which reduced process time by **20%**.

SELECTED PROJECTS

The Data Mine - Purdue University — Aug 2021 - Jan 2022
Data Science Researcher — *Indiana, United State*
- Utilized **Python** on Linux cluster to construct CNN model for IC50 on 6+ drugs.
- Applied LSTM model to predict time series drug response with different chemicals and its concentration in **Pytorch**.

Intelligent Agriculture: A Smart Detection Program for Recorded Data — Apr 2020 - Jan 2021
Agriculture and Food Agency Council of Agriculture, Executive Yuan — *Taipei, Taiwan*
- Retrieved climate information from regional weather station website through web scrapying in **Python**.
- Established high-performance SVR model to detect abnormal data with **80%** accuracy by statistical analysis.
- Constructed exploratory data analysis on distinct data features and built a high-volume data pipelines to convert raw data to convert raw data into actionable answer to promote agriculture economic.

Supply Chain Management Model for Intelligent Agriculture — Oct 2019 - May2020
Ministry of Economic Affairs — *Taipei, Taiwan*
- Deployed SVM predictive model to forecast optimal planting date to ensure maximum yield amount in **Python**.
- Designed the website interface and back-end database for searching and storing in **PHP** and **MySQL**.
- Collaborated with food agency council to execute elastic regression to maximize the product price expectation to address business issues.

SKILLS AND HONORS

Programming Language: Python, R, MATLAB, PHP, HTML, C++
Frameworks: AWS, Pytorch, PySpark, MySQL, Hadoop, Python(eg. scikit-learn, pandas), data visualization
Intelligent Manufacturing: Big Data Final Competition (Rank:10/111) — *Oct 2020*
Data Innovation Final Competition (Fifth Rank out of 40 teams) — *Nov 2020*