

KAI-HSIN HUNG

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EDUCATION

University of the Pacific, Stockton, California

Master of Science in Data Science

Aug. 2024 - May. 2026

Overall GPA: 4.0

Relevant Courseworks: Relational Databases, Data Visualization, Machine Learning, NPL for Data Science

Ming Chi University of Technology, New Taipei City, Taiwan

Bachelor of Science in Material Science and Engineering

Sept. 2019 - Jun. 2023

Relevant Courseworks: Thermal Dynamics of Materials, Engineering of Mathematics, Semiconductor Processing

SKILLS

Computer Programming: Python, SQL, HTML

Language: Mandarin (Native), English (Fluent)

EXPERIENCE

Formosa Plastics Group, Yunlin County, Taiwan

Nov. 2021 - Sept. 2022

Manufacture Engineering (Internship)

- Organized Low-Density Polyethylene factory pipeline data by material, diameter, and length to speed up repairs.
- Used ultrasound for pipeline analysis to confirm completion and reduce issues, cutting leaks by 15%.

Industrial Technology Research Institute, Tainan City, Taiwan

Sept. 2021 - Oct. 2021

Researcher (Internship)

- Performed welding to produce a reference solar cell per World PV Scale Standard, enabling its use for calibrating solar test machines.
- Used a Four Point Probe to assess solar cell chips, targeting a 2% defect rate reduction.

SELECTED PROJECTS

K-Nearest Neighbors Prediction

Feb. 2025

- Used the KNN algorithm to build a model, implemented different distance equations for the calculations. and achieved a best accuracy of 87.5%.

Transportation Data Science Project

Jan. 2025

- Analysis NYC vehicle collisions dataset find the top 5 reasons that cause the accident.
- Utilize data visualization skills to produce the charts, compare relationships between different categories, and recommend solutions to reduce the number of crashes.

Handwriting Classification

Dec. 2024

- Used the SVD algorithm to classify handwritten data from the dataset.
- Achieved an accuracy of 93.97% with the model.

Image Compression

Dec. 2024

- Used the PCA algorithm to compress several large-sized images.
- Combined the images to generate a new one with reduced noise.