PAUL CHEN

463-210-6665 | chen3876@purdue.edu | linkedin.com/in/paiweichen/ | paul46186.github.io/portfolio/

PROFILE

Data enthusiast with 1+ data analyst experience in manufacturing industry with proven technical qualities, analytical mindset, strong communication, presentation skills and actionable insights

- **Technical Skills:** Python, SQL, Excel VBA, Tableau, R, SAS EM, HTML, Deep Learning, NLP, Data Mining, Machine Learning, Model Validation, Time Series, Project Management, Data Visualization, Optimization
- **Strength:** Leadership, Active Listener, Change Management, Agile, Self-Learner, Empathy, Presentation, Chinese

EDUCATION

Purdue University, Krannert School of Management   West Lafayette, IN
Master of Science in Business Analytics (STEM) GPA 3.59/4.0   Jun 2021 – May 2022

    2022 Kaggle Crossroads Classic Datathon (Team Leader)
- Defined phishing emails and created an ensemble model (SVC + XGBoost) that has 98.53% accuracy
- Won 3rd place out of 47 teams on the Kaggle leaderboard

    STAMINA Analytics Case Competition (Team Leader)
- Pitched to a drone star-up to provide our analysis for the piloting locations and potential revenue streams
- Won 3rd place out of 50+ teams

    SAS Optimization Challenge – Water Usage Contract (Team Leader)
- Constructed nonlinear optimization model to determine which water contracts the corporation should adopt
- Won 1st place out of 16 graduate division teams

National Cheng Kung University   Tainan, Taiwan
Bachelor of Management Science, Industrial and Information Management   Sep 2016 – Jun 2020

PROFESSIONAL EXPERIENCE

SIL International – Capstone (Linguistic NGO Affiliated with United Nations)   West Lafayette, IN
Data Scientist Intern   Jan 2022 – Present
- Reduced translation cost and time by establishing a method that optimizes the sequence of training datasets for machine translation models and provides a clear strategy for choosing the semantic domains
- This method is effective for translating rare languages that require human translation

Shoetown Group (Show Manufacturer for Nike)   Qingyuan, China
Data Analyst Intern   Feb 2019 – Feb 2020
- Automated the inventory system to reduce workers' daily input time from 6 hours to 1 minute by using **Excel VBA**
- Built a machine performance system to enable the company to monitor their newest 3D printers working time

Research Team Lead for an Assembly Line Problem
- Led a group to define the analytical problem, coordinated with stakeholders, assigned tasks, set a timeline for deliverables, presented to professors, and passed the oral defense
- Minimized cost to implement job production (small batches) with robust optimization models through **Python** and **Gurobi** that recommend managers the optimized workstation layout within 1 minute

PROJECTS AND LEADERSHIP EXPERIENCE

Window Breakage – Selected by Pycon US Conference 2022 Poster Session
- Predicted the window breakage rate and integrated the model's beta value into an optimization model to find the best decisions for each variable (e.g., Cutting speed, Window Size, Batch size)

Graduate Teacher Assistant – Python Programming and Management Information System
- Collaborated with professors to grade assignments and exams and answer 50+ students' questions

Video Gaming Classification - Improving Craigslist's Key Words Searching
- Scrapped, tokenized, and lemmatized the Craigslist video game data and built six models using **beautifulsoup**, **keras**, and **nltk**, resulting in increasing information gain by 34% with an 88.45% accuracy rate model

Heart Disease Classification Project
- Created a **Rshiny** app to provide an interactive dashboard to visualize patients' data and predict the likelihood of heart failure by allowing users to input 14 body variables that can help doctors facilitate the risk factor identification

CERTIFICATE

- **Certificates**: NVIDIA Fundamental Deep Learning, Google Data Analytics Certificate, Google Digital Marketing Certificate, Data Camp Data Scientist with Python | R | SQL Track