Pai Peng

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OVERVIEW

As a fluent speaker of three languages—Spanish, English, and Chinese—I bring a distinctive global perspective shaped by my educational experiences across diverse cultural backgrounds. I built a solid math foundation during my primary education in China and continued my studies through middle school to my sophomore year at a university in Spain. After gaining admission to a prestigious U.S. university for Computer Science, I made the decision to relocate to the United States in pursuit of a higher-quality education.

EDUCATION

Undergraduate Artificial Intelligence | Autonomous University of Barcelona   Sept. 2021 - Dec. 2022
Awards:
- Course Honor in Linear Algebra and Calculus
- Aguas de Barcelona DC – Finalist
Intermediate - Advanced Courses:
- Machine Learning: Notable
- Computer Vision: 9.8
- Data Engineering: 9.5
- Multivariate Calculus: 9

Undergraduate Computer Science + Data Science | University of Wisconsin-Madison | current GPA: 3.9~   Transferred Jan. 2023 -
Awards:
- 2023 Spring Dean's List
Intermediate – Advanced Courses:
- CS 400 | CS 540 | STAT 340 In progress

WORK EXPERIENCE

Research Assistant: Benchmarking different Deep Learning Low Light Image Enhancement Algorithms | Computer Vision Center Barcelona
- Automated image dataset acquisition by controlling light conditions using Python   July 2021 - Dec. 2022
- Automated the sensor detection using C# to detect the real saturation and brightness of the image acquired
- Tested different deep learning algorithms that transform Low Light images into visual images
- Acquired a Lab-condition based Low Light Image dataset using OpenCV   Supervisor: [J. Vázquez Corral](#)

Undergraduate Researcher: Machine Learning Strategy for Demixing Chemical Components in Complex Mixtures | University of Wisconsin-Madison
                                                                                                Feb. 2023 –
- Preprocessed the noisy data into characteristic peaks using Clusters and Raman Spectra properties
- Converted characteristic chemical peaks into Machine Learning readable formats
- Gridsearched the optimal hyperparameters combining self-defined classes with SKlearn
- Visualized the model's learning process using TensorBoard and Matplotlib   Supervisor: [H. Wei](#)

PROJECTS & ORGANIZATIONS

Finalist project at Aguas de Barcelona Data Challenge   Sept. 2022 – Dec. 2022
Team Leader
- Implemented an AI model namely NeuralProphet for anomaly detection and consumption prediction purposes.
- Streamlined the detection process for different zone
- Coordinated weekly goals and tasks   [Demo in Spanish](#)

Spam Email Detection (Course Project)   Sept. 2022 – Oct. 2022
- Implemented DNN, SVM and Random Forest to determine spam emails.
- Fine-tuned model achieved a precision rate of 94%.
- Desgined a new metric namely phi which showed the potential to improve the spam detection.

Chinese Student Association at UAB – Head of Department of Planning   2021 – 2022
- Organized the Chinese Student Welcome Day Event at UAB
- Planned several small engagement events   [News interview at La Fundació UAB](#)

HackUPC – Leader of the Team   Mar. 2021
- Preprocessed the data
- Optimized the model using grid search

PROFESSIONAL SKILLS

Programming Languages: Python, Java, C++, SQL
Machine Learning: Pytorch, Sklearn, TensorFlow, Steamlit, Pandas, Numpy, matplotlib
Language Skills: Bilingual in Spanish and Chinese and fluent in English