Jia-En (Jessica) Lee

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Education

Cornell Tech (Cornell University) — New York, NY
MEng in Computer Science — May 2025
Relevant Coursework: Machine Learning Engineering, Security and Privacy, VR/AR

Columbia University (Coursera) — Online
First Principles of Computer Vision Specialization — Aug. 2024
Relevant Coursework: Camera and Imaging, 3D Reconstruction, Features and Boundaries

Carnegie Mellon University — Pittsburgh, PA
B.S. in Mathematics, Minors in Computer Science, Game Design — May 2024
GPA: 3.94/4.0, Graduated with University Honors, Dean's List High Honors (all semesters)
Relevant Coursework: Artificial Intelligence, Machine Learning, Computer Systems, Parallel and Sequential Data Structure and Algorithms, Human-AI Interaction, Functional Programming, Game Engines, VR Game Development.

Skills

Python, C#, C/C++, SML, TensorFlow, PyTorch, OpenCV, GCP, Unity, Git, React, JavaScript, HTML, CSS

Experience

Edge AI SWE Intern — New Taipei City, Taiwan
VIA Technologies — May 2023 - Jul 2023

- Created a 2-staged first-person Fall Detection model with TensorFlow for camera and video inputs
- Collaborated on building and unit testing a C++ API for hardware inference acceleration and a wrapper Python library using Boost.Python in an Agile environment
- Built an app using the API and OpenCV to process and visualize the outputs of models including Fall Detection, OpenPose, and SSD Mobilenet for VIA's VAB-912 demo at the AIoT Workshop, Japan

Machine Learning Intern — Taipei, Taiwan
CloudMile — Jun 2022 - Jul 2022

- Built models with XGBoost and Google Cloud AutoML of predicted customer lifetime value of a top 10 global retailer and achieved 94% recall and precision
- Performed feature engineering and correlation analysis on multiple variables in Python to propose a heuristic model that predicted user behavior
- Visualized and communicated analysis results to the Google Hong Kong Customer Engineering Team

Projects

GPTutor
LLM Analogical Learning Platform — Jan 2024 - Apr 2024

- Designed and tested the analogical learning platform GPTutor leveraging insights from surveying relevant research papers on Human-AI Interaction designs
- Collected learning materials and crafted effective prompts for the LLM system accordingly

Finite Element Solver
PDE Solver — Aug 2022 - Dec 2022

- Built a partial differential equation solver in Python using the finite element method
- Conducted finite element analysis on incompressible fluid flow around aircraft wing using the solver

Language

Fluent in English and Mandarin, elementary proficiency in Japanese