Yicheng Luo

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EDUCATION

University at Buffalo. The State University of New York   2021-2024
Bachelor of Engineering, Computer Science (Cum Laude)   GPA: 3.3/4.00
Courses: Algorithms Analysis and Design, Blockchain Application Development, Data Intensive Computing, Intro to Machine Learning, Intro to Web Applications, System Programming

WORKING EXPERIENCE

Corey Copani, Research and Development (Cicero, NY)   June 2024-August 2024
AI Development Intern
- Optimized the CNN model training process and CNN model architecture using **Tensorflow**, leveraging **Torch** for parallel processing, GPU and TPU acceleration. This resulted in a **5%** reduction in training time costs.
- Optimized the image preprocessing and advanced tensor computing using **OpenCV**, **Pytorch, Scipy**, and **CUDA**, Increased the accuracy of generated 3D models, achieving **100%** accuracy for simple Roblox models and improving accuracy from **88%** to **94%** for complex Roblox models.

SKILLS

Programming Languages: C/C++, Golang, Java, JavaScript(ES6+), Python, R, Scala
Web Development: Node.js, Express.js, React.js, Flask, PostgreSQL, CSS, HTML5
Database & Cloud: PostgreSQL, MongoDB, AWS, Azure, Docker
Data Science & Machine Learning: Numpy, Pandas, Scikit-learn, TensorFlow, Pytorch, Keras, Seaborn, MatplotLib
Big Data & Data Engineering: Apache Spark, Pyspark, SQL, ETL pipelines

PROJECT EXPERIENCE

Airfare Prediction Model | Github   May 2024
- Processed and analyzed a dataset of **300k rows** using Python (*Pandas* and *Numpy*), ensuring efficient data collection, mining, and preprocessing for model readiness.
- Designed and implemented an ensemble model combining *XGBoost*, *LGBM Regressor*, and *RandomForest Regressor* using *StackingCVRegressor* techniques, achieving **a R2 score of 0.98**.

CERTIFICATIONS

Back-End Engineer | Codecademy   December 2024
- Mastered back-end development skills, including JavaScript, Node.js, Express.js, PostgreSQL and API development. Learned server deployment, API integration, version control with Git, authentication, and authorization.

Machine Learning / AI Engineer | Codecademy   January 2025
- Mastered advanced machine learning concepts, including supervised and unsupervised learning, deep learning with TensorFlow, and data preprocessing with Pandas and scikit-learn.

Data Scientist: Machine Learning | Codecademy   January 2025
- Mastered machine learning fundamentals, including supervised and unsupervised learning, data preprocessing, model optimization, and deployment. Gained hands-on experience with Python, TensorFlow, and scikit-learn for building and evaluating predictive models.