Yuxuan Fan

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EDUCATION

UC SAN DIEGO
B.S. IN DATA SCIENCE
2018 - 2022 | La Jolla, CA
Halıcıoglu Data Science Institute
Provost Honor
Cum. GPA: 3.95 / 4.00
Major GPA: 3.98 / 4.00

LINKS

Portfolio:// **yuxuan.fan**
Github:// **991231**
LinkedIn:// **yxfan**

COURSEWORK

UNDERGRADUATE
Data Structure and Algorithm
Object-oriented Programming
Data Mining
Machine Learning
Deep Learning
Computer Vision
Natural Language Processing
Database
Data Visualization

SKILLS

LANGUAGE
Mandarin (Simplified Chinese) •
English • Korean

PROGRAMMING LANGUAGE
Python • Java • C++ • Scala • SQL •
JavaScript • HTML • CSS

LIBRARIES AND FRAMEWORKS
Data
Scikit-Learn • Pandas • Pytorch • Spark
Web
ReactJS • Flask

EXPERIENCE

UC SAN DIEGO ACADEMIC TUTOR
September 2019 - Present • La Jolla, CA
- Tutored 3 courses (DSC 20/30/40B) that introduce programming in Python and Java, basic data structure and algorithms, and theoretical concepts of machine learning.
- Designed 10+ programming assignments on data structure applications and object-oriented programming.
- Helped 300+ students by hosting online and in-person office hours.

UCSD CHINESE COMPUTER COMMUNITY TECH LEAD
September 2019 - Present • La Jolla, CA
- Led a team that participates in Kaggle competitions on various domain of interests.
- Hosted introductory workshops to machine learning and deep learning concepts and frameworks (Pytorch).

PROJECTS

INTELLIBEAR Code
- A dashboard-liked webapp that provides sales forecasting and analytics for restaurants.
- Implemented a time-series forecasting pipeline using python and frontend dashboard using ReactJs and charting libraries.

IMAGE AUGMENTATION DEMO Website • Code
- A webapp that displays the effect of image augmentation operations.
- Implemented backend with python Flask and frontend with ReactJS and styling libraries.

DATA VISUALIZATION: EVOLUTION OF TIKTOK Website • Code
- An interactive and responsive data visualization for TikTok's growth statistics.
- Implemented website skeleton with vanilla HTML/CSS and HighChart for visualizations.

NEW YORK AIRBNB PRICE PREDICTION Code • Presentation
- A project for UCSD DSC 190A Data Mining Challenge, won the 1st place among 125 participants.
- Applied multiple feature engineering strategies and Light GBM model, the prediction scored a RMSE of 76.37 on private leaderboard.

UBER TRAVEL TIME FORECAST Report
- A group project for UCSD DataHacks 2020 Business Track, won the 2nd place among 30 teams.
- Created data visualizations for EDA and performed time-series forecasting with SARIMA model.