'uxuan Fan

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EDUCATION

UCSAN DIEGO

B.S. IN DATA SCIENCE

Sept 2018 - June 2022 (Expected) La Jolla, CA

Thurgood Marshall College Halicioglu Data Science Institute Provost Honor

Cum. GPA: 3.96 / 4.00 Major GPA: 3.98 / 4.00

SKILLS

LANGUAGE

Mandarin (Simplified Chinese) • English • Korean

PROGRAMMING LANGUAGE

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

LIBRARIES AND FRAMEWORKS PROJECTS

Scikit-learn • Pandas • Pytorch • PostgreSQL • Google Firebase • Spark • Flask • ReactJS • NodeJS • ExpressJS

LINKS

Personal:// yuxuan.fan Github:// 991231 LinkedIn:// yxfan

COURSEWORK

UNDERGRADUATE

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

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 machine learning theories.
- Designed 10+ programming assignments on data structure applications and object-oriented programming.
- Helped 300+ students to understand course contents and debug code by answering 1500+ student posts online and hosting office hours.

UCSD CHINESE COMPUTER COMMUNITY PROJECT MANAGER

September 2019 - Present · La Jolla, CA

- Managed a 10-person project that helps members to improve data analysis skills and gain real-world experience by participating in Kaggle competitions.
- Led study groups to learn machine learning and deep learning concepts every week, and hosted tutorials on Scikit-learn and Pytorch.
- Helped team members to build handwriting classifiers with **ResNet** variants and perform text sentiment extraction with BERT from scratch.

SOCIAL CODING ARENA Code

- A web application that allows users to host customized coding contests, invite other users, and join public coding contests through the lobby.
- Designed product concepts and user flow, designed database schema and implemented database queries using Google Firebase (and a backup plan with PostgreSQL), and implemented the frontend of several pages with ReactJS.
- The prototype won a finalist award (7th/83) in Unicode SC+ Hackathon 2020. Expected to deploy the final product by the end of 2020.

NEW YORK AIRBNB PRICE PREDICTION Code • Presentation

- A data mining project that predicts the price of New York Airbnb listings using their metadata, textual descriptions, and review scores.
- Implemented data pre-processing pipeline with **Pandas** and **Scikit-learn**, and fitted a single **Light GBM** model. Won 1st/125 in UCSD DSC 190 A00 Data Mining Challenge with a public RMSE score of 76.37.

IMAGE AUGMENTATION DEMO Website · Code

- A web application that provides an interface to perform image augmentations and inspect augmented images in real-time.
- Implemented frontend with ReactJS and Bootstrap 4, implemented augmentation API with Flask, and deployed the application with Heroku.

INTELLIBEAR Code

- A dashboard-liked web application that provides sales data management, forecasting and analytics for restaurants.
- Implemented a time-series data processing pipeline that preprocess the input data with **Pandas** and make predictions with stacked **Light GBM** and **LSTM** models. Implemented dashboard page prototype with vanilla HTML/CSS/JS.

DATA VISUALIZATION: EVOLUTION OF TIKTOK Website · Code

• An interactive and responsive data visualization for TikTok's growth statistics implemented with vanilla HTML/CSS and HighCharts (a charting library).