

Chuxuan Quan

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EDUCATION

New York University, Brooklyn, NY

M.S. in Management of Technology

GPA: 3.9/4.0

Sep. 2021– May 2023

Soochow University, Suzhou, China

B.E. in New Energy Materials and Devices

GPA: 3.6/4.0

Sep. 2016 – Jun. 2020

SKILLS

Programming Languages: Python, SQL, JavaScript, R, CSS/HTML

Platforms and Tools: Pandas, React, TensorFlow, MongoDB, Scikit-Learn, Git, Seaborn, Django

Certificates: AWS Certified Cloud Practitioner

WORK EXPERIENCE

Project Management Intern, Shanghai Liangling M&E Equipment, Shanghai, China

Oct. 2020 – May 2021

- Performed online research and created 20+ business & technology documents of BASF Golden Island project.
- Co-ordinated with 10+ team members & reported the consolidated project progress & status at BASF weekly meeting.

Data Analyst Intern, Changzhou Sendo Water Treatment, Changzhou, China

May 2020 – Sep. 2020

- Overhauled the calculation process for water quality analysis on 10+ metrics collected for 800+ records from the water treatment plant with Python, optimized the calculation processing time by 50%.
- Developed Excel template for automatic data input and SQL database to store the historically collected data for analysis.
- Built a supervised machine learning model to optimize the selection of the water treatment chemical, decreasing 5% cost.

PROJECTS

SkimLit

Dec. 2021 – Jan. 2022

- Classified the abstract of papers using the NLP model to background, objective, methods, and results.
- Trained CNNs and a transfer learning model with pretrained token, character, and positional embeddings on cloud GPU.
- Compared to the baseline TF-IDF model with an accuracy of 72.2%, using the tribrid embedding model increases the accuracy to 83.2%.

GitHub User Search

Dec. 2021 – Jan. 2022

- Built a full-stack web app using React, HTML, and CSS to search GitHub users' information with GitHub API.
- Designed visualized components with Fusion Charts to analyze users' repositories, stars, and forks.
- Implemented Auth0 to communicate securely with other protected resources by exchanging access tokens for authentication instead of using usernames and passwords.

Personal Blog

Oct. 2021 – Dec. 2021

- Established a personal blog using Django to post blogs and comments under authentication.
- Applied combination of HTML/CSS, JavaScript, Bootstrap on client side designing responsive layout web page.

IMDb Scraping, EDA, and Rating Prediction

Sep. 2021 – Nov. 2021

- Used the BeautifulSoup Python Library to extract over 170,000 movies information from a given URL an automated way.
- Conducted data visualization and EDA of IMDb movies data using matplotlib, seaborn and performed feature engineering to increase the performance of models.
- Leveraged Scikit-Learn including Logistic Regression, Decision Tree, Random Forest, SVM, KNN and tuned parameters using k-fold cross-validation to optimize the rating prediction model.