Qianyi Sha

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SUMMARY OF QUALIFICATION

- Strong background in using various Machine Learning models including Logistic regression, SVM, Random Forest, etc.. Designed different types of Neural Network models in projects.
- Ability to interact with peers and stakeholders to drive product and business impact.
- **Programming:** Python, SQL, C++, Java, Linux
- **Libraries and Frameworks:** Keras, OpenCV, Tensorflow, Scikit-Learn, Numpy, Pandas
- **Technical Skills:** Data Structure, Algorithms, Computer Vision, Machine Learning, Image Processing, Object-Oriented Design, Database, Git, Software Development

EDUCATION

University of Washington, Seattle   *Expected June 2023*
Master of Science in Electrical & Computer Engineering   **GPA: 3.88/4.0**
University of California, Irvine   *Sep. 2017– Dec. 2020*
Bachelors of Science in Computer Science & Engineering

EXPERIENCE

Youyuan Inc   *Jan. 2021 – Jun. 2021*
Data Analyst Intern   Beijing, China
- Constructed data pipelines including identifying important data nodes, data cleansing, data collecting and analyzing. The pipeline **processes 100k users generated data daily**.
- Created ML model based on Decision Tree and Multinomial Logistic Regression to predict user subscription rate, **increase conversion rate by over 10%** by identifying users' key interest points.
- Constructed **statistical metrics** to evaluate service performance, including user group statistics and user behavior analysis.
- Technology used: Python, SQL, jupyter notebook, scikit learn

Thales Group   *Jan. 2019 – March. 2019*
Data Analyst Intern   Irvine, CA
- Conceptualized and programmed a **NLP Machine Learning** model based on **Decision Tree, SVM, Logistic Regression, Naive Bayes, TFIDF** to automate classifying client feedback tweets.
- Technology used: Python, Scikit Learn, NLTK NLP package

Lenovo Quality Department   *June. 2018 – Aug. 2018*
Data Analyst Intern   Beijing, China
- Constructed a web crawler to automatically pull client feedback from 3 different e-commerce websites. **Processes hundreds of feedback daily, reducing engineer's efforts by 1hr/day**.
- Constructed a data pipeline to collect, clean, analyze client feedback and assemble post-sale reports.
- Technology used: Python, Tableau

RELATED PROJECTS

Neural Network Stock Prediction   *Jan. 2022– Mar. 2022*
- Designed and programmed a **LSTM** based **neural network** to predict stock price based on price history.
- Implemented baseline prediction algorithms including **SMA, EMA, STL**.
- Analyzing 5 different tech stocks using former mentioned prediction models with Alpaca API.

Twitter Sentiment Analysis   *Jan. 2022– Mar. 2022*
- Classifying Tweets' sentiment using **Machine Learning** models including **Logistic Regression, SVM, Naive Bayes, Random Forest.**
- Building tweet sentiment classifier using pre-trained **BERT** network.

Recommendation System   *Jan. 2022– Mar. 2022*
- Implemented a movie **recommendation system** on MovieLens 25M dataset using various structures including: user-user/item-item collaborative filtering, content based search, **SVD**, **Neural Collaborative filtering**.

Soccer Player Video Tracker   *Sept. 2021– Dec. 2021*
- Developed **convolutional based neural networks** to identify and track soccer players' location on soccer match video.
- Developed **Machine Learning classifiers** using feature detectors and algorithms including **Random Forest, Logistic regression and SVM**.