JESSICA (WENXIN) GUO

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EDUCATION

University of California, Berkeley   Berkeley, CA
Master of Analytics| Cumulative GPA: 4.00/4.00   Expected August 2024
University of California, Berkeley   Berkeley, CA
B.A. in Data Science | Cumulative GPA: 3.76/4.00   May 2023

PROFESSIONAL EXPERIENCE

Synergies Intelligent Systems, Inc.   Boston, New York(Remote)
Data Analyst Intern   June 2024 - Present
- Built a comprehensive dataset by extracting and preprocessing data from the COCO dataset and Open Images Dataset v7, focusing on images containing LED screens and various reference objects.
- Utilized **YOLOv8** to accurately identify and locate LED screens and nearby reference objects within images.
- Created a custom algorithm to estimate the real-world area of detected LED screens, leveraging the dimensions of nearby known objects for accuracy.

Canadian Solar Inc.   Walnut Creek, CA
Data Analyst Intern   May 2023 - July 2023
- Developed a custom **Excel macro**, reducing report preparation time from 8 hours to one hour.
- Implemented rigorous model validation using Random Forest, XGBoost, etc models in Python, resulting in a reduction of forecasting errors from 25% to 10%.
- Crafted and deployed interactive **Power BI** dashboards for analysts to compare average inbound lead time with different storage locations, enhancing data-driven decision-making.

Gotion Inc.   Fremont, CA
Data Engineer Intern   May 2022 – August 2022
- Devised **Python**-based solutions to decode CAN log files, extracting vital operational insights.
- Spearheaded the creation of **Grafana** dashboards for real-time battery data analysis, enabling effective monitoring and analysis of critical business metrics.
- Built an **AWS**-based **ETL** pipeline to enhance data management and workflow efficiency.
- Crafted **SQL** queries for integration into Grafana dashboards.

RESEARCH EXPERIENCE

UC Berkeley Data Science Discovery Program   Berkeley, CA
Research Apprentice   September 2021 – December 2021
- Collected Feature Request Data and trained an AI Model to predict the sentiment of a review
- Pioneered a **SaaS** Tool for extracting actionable insights from feedback data.

PROJECT EXPERIENCE

INDENG 243 Analytics Lab   Spring 2024
Airbnb Recommendation System Lead Developer
- Developed real-time filtering mechanisms to tailor suggestions dynamically based on user data.
- Crafted hybrid recommendation models, blending collaborative and content-based filtering to enhance personalization and accuracy.

SKILLS

Skills: Proficiency in data structures and SQL coding, Designing and optimizing data-processing systems using AWS services (S3) and Lambda, Proficiency in Microsoft Excel(macro and pivot tables), machine learning, Deep Learning, NLP.
Programming: Java, Python, Pytorch, TensorFlow, Scheme, SQL, ETL
Language: Mandarin Chinese, English