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, reducing object detection error by 13.3%.
- Utilized the dimensions of reference objects to improve LED screen area estimation accuracy by 22%, applying homography and object detection techniques to achieve precise real-world measurements.

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 1 hour.
- Implemented model validation using **Random Forest**, **XGBoos**t, etc., in **Python** to predict average inbound lead time with different storage locations, resulting in a reduction of forecasting errors from 23% to 8%.
- Crafted and deployed interactive **Power BI** dashboards for analysts to compare lead time, enhancing data-driven decision-making.

Gotion Inc. — Fremont, CA
Data Engineer Intern — May 2022 – August 2022
- Led the creation of **Grafana** dashboards for real-time battery data analysis, boosting operational efficiency by 18%.
- Built an **AWS**-based **ETL** pipeline processing 500,000+ data points daily, enhancing data management.
- Crafted optimized **SQL** queries for Grafana dashboards.
- Developed **Python** solutions to decode **CAN** (Controller Area Network), used in automotive electronics.

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, leading to a 25% improvement in simulated recommendation relevance.

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