JESSICA (WENXIN) GUO

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Green card holder

EDUCATION

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

PROFESSIONAL EXPERIENCE

Intex Recreation Corp. — Long Beach, CA
Data Analyst — October 2024 - Present
- Developed predictive models leveraging **Prophet**, **Gradient Boosting**, and **Random Forest** to forecast Intex airbed sales at Target, driving strategic decision-making and resource allocation.
- Analyzed weekly POS data to generate performance insights, identifying key drivers of sales fluctuations and informing actionable strategies.
- Automated reporting workflows for weekly POS data and monthly Supplier Business Plan (SBP) using Excel macros, improving process efficiency and accuracy.

Synergies Intelligent Systems, Inc. — Boston, NY
Data Analyst Intern — June 2024 - Present
- Built and preprocessed a dataset from COCO and Open Images v7, focusing on LED screens and reference objects.
- Used **YOLOv8** for precise object detection, reducing error by 13.3%, and improved area estimation accuracy by 22% using homography and object dimensions.

Canadian Solar Inc. — Walnut Creek, CA
Data Analyst Intern — May 2023 - July 2023
- Created 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%.
- Deployed interactive **Power BI** dashboards for analysts to compare lead time.

Gotion Inc. — Fremont, CA
Data Engineer Intern — May 2022 – August 2022
- Created **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.
- 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 a **BERT-based NLP** model to predict review sentiment with 88% accuracy.
- Developed a **SaaS** tool to extract actionable insights from feedback, enabling product teams to identify trends in customer satisfaction and prioritize feature development.

PROJECT EXPERIENCE

INDENG 243 Analytics Lab — Berkeley, CA
Airbnb Recommendation System Lead Developer — January 2024 – May 2024
- 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: Salesforce, Power BI, AWS services (S3) and Lambda,, ML, Deep Learning, NLP, SAS, ETL, Pytorch, TensorFlow
Programming: Python, SQL, Java, R, Scheme
Language: Mandarin Chinese, English