Longcong Xu

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EDUCATION

Columbia University   New York, NY
Master of Science in Data Science, GPA: 3.7/4.0   Expected Dec 2023
Courses: Advanced Algorithms, Computer Systems, Deep Learning, NLP, Artificial Intelligence, Statistical Modeling

University of Illinois at Urbana-Champaign   Champaign, IL
Bachelor of Arts in Economics, Minor in Computer Science, GPA: 4.0/4.0   May 2022
Courses: Data Structures, Discrete Structures, Data Mining, Cloud Computing Applications
Honors: Dean's list all semesters, Summa Cum Laude.

WORK EXPERIENCE

BlocPower Energy Services   New York, NY
Software Engineer Intern   May 2023 - Present
- Created 5 API data pipelines, reducing 4+ hours of manual data fetching, resulting in enhanced customer personas
- Unified 3 TBs of energy consumption datasets using spatial joins, resulting in 8 different analytical visualizations
- Conducted thorough ETL on the merged dataset, deriving 1K bias correction coefficients archetypes between models

University of Illinois at Urbana-Champaign   Champaign, IL
Research Assistant   Jan 2022 - May 2022
- Leveraged Convolutional Neural Networks on 20GB image dataset, facilitating 15% improvement in staff evaluation
- Categorized 1K+ vending machines, identifying optimal ones for price elasticity experiments based on key attributes
- Streamlined drivers' routes across ten cities, achieving a 20% boost in operational inventory efficiency

People's Insurance Company of China (PICC)   Hangzhou, CH
Data Scientist Intern   Jul 2021 - Aug 2021
- Applied Gray modeling, LASSO regression to predict two-quarter insurance metrics, aligning with client company
- Analyzed 30 driving attributes to refine 2 models, evaluating drivers' skills and pinpointing accident risk factors

ACADEMIC PROJECTS

Work search process sharing platform
- Added user-friendly features (like, comment, favorite) for sharing job opportunities on 250+ company showcases
- Engineered website's database structure using 3 ER diagrams, enhancing the relational model with 8 entities
- Deployed robust database via Flask and SQLAlchemy; crafted intuitive 5 front-end pages for better UX design

Pioneering Data Science Venture Capital Project
- Leveraged Zenrows, Beautiful Soup, Selenium for efficient web crawling; transformed data into structured format.
- Conducted Data Integrity and Quality Testing on 13GB of crawled dataset using BART model and ROUGE statistics
- Extracted essential article information for analysis, aiding in crafting over 55+ private equity investor profiles
- Utilized LDA, NER, and word cloud technologies despite tight schedule, proficiently developing the profiles

SKILLS

- Coding: Python, Java, C++, Swift, JavaScript, HTML, CSS
- Development: MVC Architecture, CI/CD, Flask, GCP, AWS, Docker, Packaging, Linux, GitHub, Bash
- Data Engineering: Data Pipelines, ETL, OLAP, AWS, DBT, Spark, Hadoop, Mapper-Reduce, Kafka, Cloud Data Warehouses (Google BigQuery), PostgreSQL, MySQL
- Data Science: Regression, Classification, Time Series, LLMs, NLP, Image Processing, Tensorflow, PyTorch
- Data Visualization and Reporting: Matplotlib, Seaborn, ggplot2, Power BI, Tableau, AWS QuickSight