

Xiaozhou (Aaron) Yu

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WORK EXPERIENCE

SCI99.com

Shandong, China

Senior Data Scientist

04/2022 - Present

- Developed and deployed advanced forecasting models using **LSTM** and **Transformer**, improving prediction accuracy by 15%, deploying them via RESTful API and **Docker** for scalable production use.
- Researched and experimented with various **time-series forecasting** frameworks, conducted extensive hyper-parameter optimization (HPO), and leveraged **MLFlow** for tracking experiments and model performance.
- Designed interactive **Tableau** and **Looker** dashboards to visualize model predictions and provide actionable insights for business teams.
- Leveraged **BigQuery** and **Snowflake** for large-scale data extraction and transformation, reducing query runtime by 40%.

WorkFusion

New York, NY

Data Scientist

03/2018 – 03/2021

- Conducted research & development projects to enhance in-house **AutoML** platform, built machine learning models in **Python** and **Java** to automate customer business processes, collaborated with software engineers and product managers to drive feature development.
- Applied linear **SVM** algorithm to identify tagging errors, reduced up to 70% noisy data, led to **5% F1** increase over baseline models.
- Designed and implemented Japanese based generic models on invoice preprocessing, led to the first use case delivery in Japan market with over **\$500,000** revenues.

Weidian

Beijing, China

Senior Data Analyst

06/2015 - 08/2016

- Applied data science techniques including **data visualization**, **data engineering**, and **regression** techniques to solve challenging business problems.

Amazon

Beijing, China

Data Analyst

01/2013 - 05/2015

- Utilized **Pandas** and **Numpy** for data manipulation, preprocessing, and feature engineering, improving model development efficiency.

EDUCATION

Stevens Institute of Technology

Hoboken, NJ

M.S. in Data Science

08/2016 - 12/2017

Shanghai University of Finance & Economics

Shanghai, China

B.S. in Statistics

09/2009 - 06/2013

TECHNICAL SKILLS

Programming Languages: Python, Java, R, SQL, Shell, Excel VBA

Framework & Software: PyTorch, Amazon AWS, Git, Docker, MLFlow, Airflow

Data & Analytics Tools: Numpy, Pandas, BigQuery, Snowflake, GCP, Tableau, Looker