

MENGMENG LIU

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Education

Johns Hopkins University

M.S.E in Data Science

Sept. 2021- Dec. 2022

Homewood Campus, Baltimore MD

University of Texas at Austin

Summer Exchange Student

Aug. 2017

Austin TX

University of Electronic Science and Technology of China

B.S in Math and Applied Math (GPA:3.7/4.0)

Sept. 2016 - July. 2020

Chengdu, China

Skills & Tools

Coding: impala SQL, python, C, Matlab

Data Related: data cleaning, data warehouse, modeling, signal processing

Software & Skills: Git, Linux, VS code, Pycharm, Jupyter Notebook, SPSS, Latex

Internship Experience

Data Analyst Intern

Dec. 2020 - May. 2021

Yimian by Ascential

Shenzhen, China

• GSK O2O project:

- ★ Participated in launching O2O China data asset and completing GSK pilot project: developed and refactored automatic data mapping and cleaning process by impala SQL and python; responsible for connecting crawler and platform group, extracted and standardized business logic, built up Redash dashboards and alerts
- ★ Participated in meeting customers individualized cleaning and analysis demands and wrote reports
- ★ Served as host for pre-launching data asset sharing meeting

• Model developments:

- ★ Unilever item picture classification model: extracted business logic and retrain pre-trained unsupervised classification model (three-step model based on Resnet) by PyTorch on company GPU with accuracy around 75%, deployed model using gunicorn and docker by designing restful Flask web API sever
- ★ Implemented linear regression to fit vague sales on Taobao: extracted features like item comment amounts, price and inventory to predict actual sales using segmented linear regression model

• Other outcome:

- ★ Researched how to evaluate data asset quality, put forward indexes like top item top store retention and new item rate; Succeeded in implementing those indexes in Pinduoduo commercial quotation sheet. Made an open report
- ★ Daily data cleaning, analyzing, acceptance and delivery demands for other projects and data assets

AI and Data Analyst Intern

July 2020 - Dec. 2020

Shutang Info Technology

Shenzhen, China

- Participated in designing clinical experiments and collected biological signals like PPG, ECG and EDA with professional devices; Responsible for managing 6-month experiment data
- Filtered and restored signal waveforms with butterworth, chebyshev2 in Scipy; Extracted features like HRV with peak detection algorithms; Wrote reports on abnormal biological behaviors

Audio Algorithm Engineer Intern

July 2019 - Dec. 2019

3G Audio

Dongguan, China

- Simulated time-frequency transformation algorithm with Matlab and C, implemented in FIR filter in audio dsp
- Fine-tuned parameters for dsp window functions so that it performed correctly
- Participated in software design of auto limited control for professional audio system by setting automatic parameter of compressor and doing formula derivation

Projects, Paper and Awards

Integer Partitions Study Project | *Published Paper*

UESTC Aug. 2018 - Dec. 2019

- M.M. Liu and A.Y.Z. Wang, The number of designated parts in compositions with restricted parts, J. Integer Seq., Vol 23 (2020), Article 20.1.8.
- Excellent Graduation Thesis At University Level for bachelor degree

Design of Thickness of Protective Clothing for Proximity Fire Fighting

UESTC Sept. 14 - Sept. 27 2018

- 1st Prize in Sichuan Contest District in Contemporary Undergraduate Mathematical Contest in Modeling

Awards

- 2nd Class Merit Student Scholarship Award, 2018-2019 Academic Year
- 2nd Class Merit Student Scholarship Award, 2017-2018 Academic Year
- Role Model of Academic Excellence Scholarship Award, 2016-2017 Academic Year