

Lilian Gong

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Master student at CMU, School of Computer Science. Dedicated to combining user experience research pedagogy with data science, applying data mining/machine learning/deep learning to fulfill user needs.

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Education

Carnegie Mellon University

School of Computer Science

M.S.

Human-Computer Interaction

GPA: 3.91

2019.08-2020.08

Peking University

School of Social Science

B.A.

Sociology

GPA: 3.72

2014.08-2018.07

Skills

Python

R

SQL

Amazon AWS

Google Firebase

Machine Learning

Statistical Modeling

Hohors

“Most Creative” Hack | Stanford

Merit Scholarship | CMU

GSA Representative | CMU

Wu-Si Scholarship | PKU

Academic Excellence Award | PKU

Relavent Courses

Machine Learning

Data Mining

Applied Data Science

Data Structure and Algorithm

Linear Algebra

Probability & Statistics

Personalized Online Learning

Experience

Amazon Alexa Social-bot Challenge

Pittsburgh,PA

2020.01-Present

Data Scientist

- Built up data analysis pipeline that helps the team monitor and evaluates social bot performance via AWS S3, DynamoDB and Athena
- Constructed bot's core natural language understanding section using NLTK, spacy, word2vec with Google and Microsoft API
- Conduct user profiling research with sentence-level embedding, PCA and neural network modeling.

Pittsburgh,PA

2020.01-2020.08

Squirrel AI Learning

Software Development

- Trained and Implemented deep learning pipeline for Named Entity Recognition and mathematic Knowledge graph construction
- Implemented front-end development of online Mistake Analysis Related System (MARS) that scaffolds learners' metacognitive learning

Beijing,China

2017.07-2017.10

Particle Media Inc.

Big Data Intern

- Produced 6 data analysis projects exploring user interactions to better understand user interests
- Proposed key changes to the app based on competitive product research, customer interviews and quantitative research

Projects

Student Code Analysis in Data Science Education

Pittsburgh,PA

2020.06-2020.08

Teaching Assistant @ Foundations of Computational Data Science

- Constructed a goal-question metric to quantitatively evaluate students' code
- Designed the code metric visualization dashboard as feedback to students learning process

Google Cloud & NCAA® March Madness Analytics

Pittsburgh,PA

2020.04-2020.06

Explorative Data Analytics @ Kaggle.com

- Constructed basketball live prediction models with rmse as 5, utilizing regression models to predict the game final scores.
- Explored the "game changing" events and the best team strategy

Lucid Drums

Santa Clara,CA

2020.02

Most Creative Hack @ Stanford University

- Created indulging virtual drumming game with Unity and Quest
- Implemented pre-trained RNN model that accurately detects rhythm in any songs