



## CONTACT ME

Location:  
Amsterdam

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## SKILLS

Programming language:  
python, SQL, R, JAVA

Database:  
Snowflake, mongoDB,  
SQL server

Data visualization:  
Metabase, Matplotlib,  
Tableau

ML framework:  
SciKit-Learn, PyTorch

## LANGUAGES

Mandarin (Native)  
English (Fluent)  
Dutch (Elementary)  
Spanish (Elementary)

# KIRA LIANG

## DATA SCIENTIST/ANALYST

### PERSONAL PROFILE

I am a self-motivated data scientist/analyst with business and natural language processing background. Skilled in interpreting and analyzing data and good knowledge in programming.

### WORK EXPERIENCE

#### Data analyst

Zivver | Mar 2020 - present

- Create ELT data pipeline for commercial data
- Conduct statistical modeling to facilitate business decisions
- Provide actionable insights, recommendations to the sales and marketing teams.

#### Machine learning specialist intern (NLP)

Elsevier | Apr 2019 - Jun 2019

- Developed a deep learning model (BERT: Deep Bidirectional Transformers) that utilized text features from raw noisy abstract and title to correctly classify multi-labeled scientific articles
- Outperformed the baseline model at 39% with respect to accuracy

#### Data Scientist

Digiwin Software Co., Ltd. | Apr 2018 - Aug 2018

- Developed insightful metrics, dashboards, reports and insights for the executive team
- Prediction of retirement: Quantified retirement reasons, reduced employee turnover rate by 12% and reduced business operation cost by 22%
- Product sales forecast: Gauged product demand and increased inventory turnover rate by 15%

#### Data Scientist

ProphetStor Data Services, Inc. | Apr 2017 - Mar 2018

- Developed conversational flows for chatbots
- Created data pipelining to using the chat conversations to train the AI Bot

## EDUCATION

### Information studies: Data science

Masters in University of Amsterdam | Sep 2018 - Jun 2019

- Machine Learning algorithm and implementation
- Big Data framework(AWS, Hadoop Spark, SQL)
- Data Mining Technics
- Statistics, Simulation, and Optimization
- Information retrieval

### Data Engineering and Data Analytic program

Institute for Information Industry | Dec 2016 - Mar 2017

- Data analytics application
- Programming in Java, R, python
- Database SQL server, MongoDB
- Hadoop ecosystem

### International business

BA in National ChengChi University | Sep 2012 - Jun 2016

- Statistics
- Marketing
- Micro/macro economics
- Financial Management

## PROJECTS

### Automated large-scale audio analysis (UVA)

- Created a big data architecture to process podcasts data and analyzed the gender balance.

### Job search engine (UVA)

- Created a job searching engine using information retrieval techniques.

### User satisfaction prediction in chatbot (UVA & ING)

- Created a big data architecture to process podcasts data and analyzed the gender balance.

### Identify duplicate question pairs for Quora (Kaggle)

- With feature engineering skill, we generated 30 features from each question pairs and implemented on different machine learning algorithms to classify whether it has the same intent or not.

### Crime prediction based on spatial and temporal crime hotspots (Taipei)

- This project aimed to find the spatial and temporal theft hotspots in Taipei city by analyzing real-world theft datasets through statistical analysis and the utility of hotspot mapping.