

Chi-Yun Chen

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Location Washington, DC, US

Projects

Data Analysis on US Foodborne Outbreak Incident in 1998–2018 in Python,

- Conducted exploratory data analysis from the dataset provided by CDC.
- Used machine learning model to predict illnesses and hospitalizations.
- Sagemaker Snapshot: bit.ly/sagemaker_FoodOutBreak; Medium Post: bit.ly/cyc_medium_food

COVID-19 Vaccination Topic Modeling for Social Media (Facebook and Twitter)

- Used Topic Modeling to conduct Natural Language Processing.

Social Network Interference in Java

- An API for users to log-in and send message to other users.

Skills

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| • Statistical Analysis in R and Python | • Machine Learning |
| • Big Data Technologies in Spark and HDFS | • Data Mining in Python, SQL |
| • Natural Language Processing by Topic Modeling | • Data Wrangling in Python |
| • Data Visualization in Python, Tableau and QGIS | • Programing in Java, HTML |
| • Language in English, Chinese and German | • Experience in AWS Sagemaker |

Work Experience

Contractor | iChemLabs, LLC | Remote, US | Jul 20 – Dec 20

iChemLabs is a scientific software company that creates affordable and easy to use chemistry software.

- Analyzed the chemical compound data and wrote the testing code in the Java environment.

Pharmaceutical Research Assistant | National Yang Ming University | Taipei, Taiwan | Jul 18 – Aug 19

NYMU is one of the top research institution in medical and biotechnology in Taiwan.

- Conducted analyses on diverse research datasets on the topic of nanoparticle in cancer therapy.
- Analyze the scientific literature to extract needed data.
- Applied scientific data to the research and developed methods to leverage scientific data in custom-made quantitative frameworks.

Product Manager and Data Analyst | Innovation Open House (IOH) | Taipei, Taiwan | Mar 16 – Jul 17

IOH is the biggest education introduction platform in Taiwan users, which cover more than 80% of high school students and the service across Hong Kong, Malaysia, and other countries in Southeast Asia.

- Analyzed products' data and developed the improvement plan and built an automatic performance evaluation system, which reduced 20% turnaround time.
- Systematized storage and created database of the company.

Marketing Data Analyst | Innovation Open House (IOH) | Taipei, Taiwan | Jan 16 – Jul 17

- Analyzed website performance data and executed SEO, which increased sessions by 74%.
- Managed FB fans page and website, and achieved 56% increase in fans base.
- Initiated and designed marketing projects, which increased the engagement of FB fan page by 30%.

Education

MS, Data Analytics | George Washington University | Washington DC, US | Jan 16 – Jul 17

- Courses: Programing for Data Analytics, Machine Learning, Statistics for Data Science, etc.

BS, Food Science and Biotechnology | National Chung Hsing University | Taichung, Taiwan | Sep 11 – Jan 16

- Courses: Statistic Methods and Data Analysis, Game Theory, etc.
- Specialization: Food Microbiology and Biotechnology