Feiyi (Fey) Wang

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EDUCATION

Worcester Polytechnic Institute, Worcester, MA 01/2015 - 05/2017
***Master of Science in Data Science**, GPA 3.91/4.00*

Shanghai University of Finance & Economics, Shanghai, China 09/2008 - 06/2012
***Bachelor of Arts in Economics Journalism**, GPA 3.23/4.00*

SKILLS

Programing Languages: Python, R, SQL, HTML, CSS, JavaScript (JS)
Analysis Skills: Machine Learning & Deep Learning Packages: Python - sklearn, tensorflow, pytorch;
Natural Language Processing (NLP) Packages: Python - gensim, nltk
Visualization Skills: Web Frameworks: Python - Django, Flask, Tornado; R - Shiny
Plotting Tools: Python - matplotlib, Plotly; R – ggplot; JS - D3, Bootstrap, jQuery;
Business Intelligence Platforms: Tableau, Qlik Sense

PROJECTS

Django Analytics Web Application Development 12/2018 – 05/2019
Ninjio IT Security Training

- Designed surveys, statistics and models to classify end users and evaluated their performance
- Used Django web framework to build dashboard for both vendors and clients and deployed the project via Docker-based LAMP (Linux, Apache, MySQL, Python) stack

Clinical Pathway Extraction and Dashboard Development 08/2017 – 08/2018
Dana Farber Cancer Institute

- Extracted systematic treatment pathways (e.g. symptom, illness history, Gleason score, prostate-specific antigen, medication) from electronic health records (EHR) of prostate cancer patients using regular expressions and nltk package
- Visualized the pathways on timeline using Flask web framework
- Explored the correlations between patient notes and medications using gensim and SNOMED CT

Clinical Analytics Platform Development 01/2017 – 07/2017
Dana Farber Cancer Institute

- Established classification models to sectionize unstructured EHR with F1 score 0.96 and applied NLP to extract clinical events such as staging, code status, metastasis
- Wrapped the project code into an easy-to-use library and documented it using Sphinx
- Developed a Clinical Analytics Platform using Flask web framework

Shiny Dashboard Development 01/2016 – 06/2016
Gordon Research Conferences

- Built interactive descriptive statistics and prediction models to target future conference attendees
- Applied topic model to free-text data, extracted keywords of each corpus, and performed clustering model to find strong correlations between paired keywords
- Used Shiny web framework to build a dashboard for vendor to view the results and set filters

EXPERIENCE

Oncology Commercial Data Analyst,
Takeda Pharmaceuticals, Cambridge, MA 01/2017 – Present

- Brand Insights Analytics and Data Visualization
  - Utilize specialty pharmacy (SP) and claims data to generate hypothesis, test assumptions, explore market insights and analyze patient journey including medication adherence, dose pattern classification, line of therapy, line prediction
  - Utilize SP, sales and lab data to generate field alerts by prediction rules and modeling
  - Design and build analytical dashboards using data visualization techniques
- Process Analysis and Enhancement
  - Identify existing problems in current data flow, and implement cross-functional interventions including data process automation, user experience improvement, and end user training
- Extracted cardio-toxicity attributes of kinases from online databases and built a searchable knowledge library for potential early detection of kinase inhibitors for clinical trials

Market Analyst
Narita Group, Shanghai, China 07/2013-10/2014

- Collected qualitative and quantitative data for market research
- Analyzed needs of clients and tendency of market and contributed to a 15% increase in sales volume