Heng Wang PhD

DATA ANALYST

PROFILE

I'm a data science graduate from General Assembly with a background in chemical engineering. I'm passionate about science and technology especially renewable energy. I look forward to working with you as a data analyst to bring new insights into the world and make it a better place!

SKILLS

- Python
- Scikit-learn
- Tableau
- HTML
- Heroku

- Pandas
- SQL
- Selenium
- Streamlit
- Google Cloud Platform

CONTACT INFORMATION

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in linkedin.com/in/hengwang322

github.com/hengwang322

PROJECTS

Wind Power Prediction with Machine Learning

- Built data pipeline in Python to acquire and clean publicly available data, followed by Exploratory Data Analysis
- Developed an XGBoost model to forecast the power outputs of wind farms in South Australia
- Built a live demo with Streamlit to continuously make hourly forecast based on real-time weather data
- View the demo at: bit.ly/wpp-hw

Job Posting Analysis

- Obtained job postings data from aggregator websites via web scrapping with Selenium and BeautifulSoup
- Developed natural language processing, SVM and random forest models to determine crucial factors that impact salary

EXPERIENCE

Ph.D. Researcher

University of Adelaide, Jul 2015-Sep 2019

- Managed research project in collaboration and communication with other research groups
- Collected, analysed and visualised research data
- Designed, developed and tested novel nanomaterial for future battery systems

Purchasing & inventory manager

University of Adelaide, Jul 2015 -Mar 2019

- Purchased and managed lab equipment and chemicals
- Built a database to track inventory and to assure chemicals were safety stored

EDUCATION

Data Science Immersive

General Assembly Sydney, Dec 2019- Mar 2020

Ph.D. in Chemical Engineering

University of Adelaide, Jul 2015-Sep 2019

Master in Chemical Engineering

Huazhong University of Science & Technology, Jul 2012-Sep 2014

Bachelor in Chemical Engineering

Huazhong University of Science & Technology, Jul 2008-Sep 2012