Elaine Zhao

DATA SCIENTIST

elainezw92@gmail.com

+65 8768 3412

Singapore Citizen

github.com/zzeniale/portfolio

linkedin.com/in/elainezw

EDUCATION

Developing Applications with Google Cloud
Coursera (Online)
2021

Data Science Immersive
General Assembly, Singapore
2019

Introduction to Statistical Learning
Stanford Lagunita (Online)
2019

Data Scientist with Python Track
DataCamp (Online)
AISG AI for Industry Programme
2019

BA Biological Sciences
Oxford University, United Kingdom
2012 - 2015

SKILLS

Python
Machine learning
Deep learning
SQL
Neo4j
Git
Experimental design
Statistical modeling
Data visualisation
Scientific research and writing
Excel VBA
ArcGIS
Adobe Photoshop
Adobe Lightroom

PROFESSIONAL PROFILE

Elaine is a data scientist at a food-tech start-up, using data science to develop proprietary technologies for food reformulation. Despite being in data science for only 2 years, she has worked in a fast-paced environment and have completed 4 independent end-to-end data science projects. She is skilled in methodically breaking down business needs and adapting data science methods into solutions specific to the needs of the food industry. As the first data scientist to join the company, she laid the groundwork behind much of the team's work today. Aside from work, she has also successfully launched a home-baking venture and is an avid experimental cook.

EXPERIENCE

Data Scientist

Hoow Foods | Singapore | Jan 2020 - Present

- Completed 4 independent end-to-end data science projects to model food science processes and to develop internal data products.
- Highly able to break down problems and tailor solutions to deliver tangible business value.
- Proven to be capable of independent work, with ability to innovate and problem-solve without supervision.
- Successfully validated the results of machine learning models by designing and conducting laboratory experiments, achieving a success rate of 88.90% so far.
- Enjoy working in a fast-paced environment, and capable of delivering desired business outcomes without compromising on meticulousness.
- Independently scoped for and proposed new data product ideas that benefit the company.
- Proven experience in Python related to data gathering and cleaning (Pandas, Selenium), machine learning (Scikit-learn, XGBoost), deep learning (Keras), optimisation (PyTorch, linear programming), community detection (Louvain algorithm, bipartite networks), NLP (sentence vectors, NER), web app development (Flask, Kivy), and dashboard-building (Dash).
- Collaborated with a data science colleague to deploy API prototype on GCP.
- Led the team to use source control and implemented good coding and collaboration practices as the data team expanded.
- Demonstrated ability to mentor a data analyst and interns in carrying out their projects over 6 months.
- Researched and evaluated suitable databases for storing food data, namely NoSQL databases including MongoDB and Neo4j.
- Obtained the Developing Applications with Google Cloud Specialisation certificate from Coursera, covering topics including BigQuery, Kubernetes, and App Engine.
- Excellent oral and written communication skills; ability to convey model findings in a logical and coherent manner in presentations.

Environmental Consultant (Marine Biology)

DHI Water & Environment | Singapore | Sep 2015 - Jul 2019

- Highly experienced in monitoring the environmental impact of client developments on marine and terrestrial habitats in Singapore; prepared environmental audit reports for clients including NParks, HDB, and JTC.
- Created effective visualisations of environmental data using ArcGIS to enhance presentation of findings in reports.
- Performed basic statistical modeling of environmental data in R.
- Proactively searched for ways to streamline workflows; improved data analysis workflow efficiency by ~90 % using Excel VBA and Python.