

Contact

www.linkedin.com/in/quanyu2015
(LinkedIn)

Top Skills

R programming
Data Analysis
Machine Learning

Certifications

Practical Machine Learning
Data Visualization
Deep Learning Specialization
Natural Language Processing
Specialization
Machine Learning

Yu QUAN

Data Scientist at Singapore Airlines
Singapore

Summary

My PhD study on human genetics using a large amount of sequencing and microarray data leads me to the world of data science. I've gained years of experience in R programming, data manipulation, data visualization, and statistical modelling from multiple research projects. As a self-motivated learner, I keep on learning new techniques from online courses. In 2019, I finished my part-time master courses at NUS. Currently, I'm working on industrial problems including predictive modelling, NLP, audio analysis and specialised in solving optimisation problems.

Experience

Singapore Airlines

Data Scientist

March 2018 - Present (3 years 2 months)

Singapore

- Solve manpower scheduling problem and customer time slot allocation problem
- Optimize aircraft assignment using constrained optimization
- Machine learning model to predict flight delay
- Text classification using NLP techniques
- Audio classification using deep learning
- Data visualizations and dashboards, data processing pipeline using Pyspark

National University of Singapore

Research Fellow

October 2015 - March 2018 (2 years 6 months)

- Developing novel analytical methods to detect genetic regulatory effect on gene expression using unsupervised learning and statistical tests.
- Process and explore large amount of next-generation sequencing data using R, ggplot2, Perl in a Linux environment. Present findings and insights to my professor.

Education

National University of Singapore

Master of Technology in Knowledge Engineering (MTech KE), Data Science · (2017 - 2019)

National University of Singapore

Doctor of Philosophy (Ph.D.), Bioinformatics · (2015)

Xiamen University

Bachelor, Biotechnology