Emmi Yeo Minyi

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EDUCATION

Master of Data Science

Universiti Malaya (Oct 2025)

BSc (Hons) Actuarial Science & Finance

UCSI University (Sep 2022)

First Class Honors, CGPA 3.79

CERTIFICATION

Google Cloud Data Analytics Certificate

Google Project Management

Google Data Analytics

SKILLS

MS Word, Powerpoint, Excel

Python

R Studio

PowerBI

Google Cloud

Visual Basic Application

Project Management

Time Management

Problem Solving

LANGUAGE

English

Chinese

Malay

ABOUT

Aspiring data scientist with strong hands-on experience in machine learning, NLP, and data analytics, backed by a portfolio of 8+ projects including deployed web apps, predictive models, and big data pipelines. Portfolio on page 2 showcases my applied skills.

EXPERIENCE

TSL VICTORY SDN. BHD. · KUALA LUMPUR · FEB 2022 – MAR 2025

FINANCE AND BUSINESS ANALYST

TSL is a private company providing finance consulting and business advisory services to local and international clients with businesses based in Malaysia.

❶ With a primary responsibility of supporting the CEO, and acted as a point of contact with clients in coordinating and managing a diverse range of business projects.

❷ Spearheaded the preparation of comprehensive business proposals to draw in funds and outlined financial calculations and strategic planning.

❸ In-depth experience in analyzing financial data, conducting ratio analysis, and providing insightful recommendations.

❹ Skilled in various valuation models, including CAPM, Residual Income Model, Residual Operating Income Model, and Discounted Cash Flow (DCF) model.

❺ Proven track record in building accurate financial forecasts to guide business planning and decision-making.

BASIS CORPORATION SDN. BHD. · KUALA LUMPUR · SEP 2020 – DEC 2020

FINANCE INTERN

Basis is a credit reporting company established for more than 2 decades, helping local and international clients make sound credit decisions and reducing their risks in extending credit.

❶ Collected, captured, verified, compiled and built massive database from financial reports.

❷ Carried out various research studies & surveys.

❸ Conducted financial analysis of companies and industry and economy outlook analysis.

SUN LIFE MALAYSIA · KUALA LUMPUR · SEP 2019 – DEC 2019

PRODUCT AND PRICING INTERN

Sun Life is a Canadian-based company offering wide range of insurance products via large distribution channels.

❶ Conducted comprehensive product competitor analysis for insurance industry and proposed new education insurance product.

❷ Created sales illustration calculator using VBA and conducted user testing of policy contract.

❸ Produced, translated, and reviewed policy contract and marketing materials.

OPPO ELECTRONICS SDN. BHD. · KLANG · FEB 2017 – SEP 2017

HUMAN RESOURCE EXECUTIVE

OPPO is a Chinese mobile phone brand specializes in designing innovative OPPO smartphones and accessories.

❶ Generated and updated complete and accurate employee files with over 500 employees and prepared monthly payroll accurately and timely.

❷ Screened, interviewed, recruited, and placed qualified potential employees.

❸ Handled employees relations, resolved issues between management and employees.

❹ Performed various administrative functions, including filing paperwork, delivering mail, preparing payroll.

PORTFOLIO

Optimization of Swing Trading Strategy Using Technical Indicators
MODELS & TOOLS: ML ALGORITHMS (CART, CHAID, GA, GP)
Analyzed 2011–2020 data from FBM KLCI & S&P 500's top 10 firms using 20 technical indicators across momentum, trend, volume, and volatility. Developed and evaluated machine learning models for predicting buy/sell signals. Addressed overfitting challenges and compared model robustness and interpretability.

Fraud Call Prevention System
MODELS & TOOLS: LOGISTIC REGRESSION, NAIVE BAYES, RANDOM FOREST, GRADIENT BOOSTING, ADABOOST, SVM, BERT
Led ideation and model training of a multi-algorithm fraud detection system deployed as a user-facing tool.
🔗 https://fraud-detection-web-app.onrender.com/

Breast Cancer Survival Prediction Web App
MODELS & TOOLS: LOGISTIC REGRESSION, KNN, SVC, NAIVE BAYES, RANDOM FOREST, RENDER
Built and deployed a predictive model for breast cancer classification.
🔗 https://breast-cancer-survival-prediction.onrender.com/

AI-Powered Mental Health Risk Prediction Tool
MODELS & TOOLS: LOGISTIC REGRESSION, RANDOM FOREST, SVM, STREAMLIT, RENDER
Developed a tool for predicting mental health risk in university students.
🔗 https://student-mental-prediction.onrender.com/

Bias Detection in Job Descriptions (NLP + RAG)
MODELS & TOOLS: NLP, RAG (RETRIEVAL-AUGMENTED GENERATION)
Built an intelligent system to identify and rewrite biased phrases in job descriptions, improving fairness in hiring practices.

Customer Segmentation for Restaurant Business Growth
MODELS & TOOLS: R, K-MEANS, HIERARCHICAL CLUSTERING, GMM
Segmented customer base to inform marketing strategy using unsupervised clustering models. Delivered actionable insights for loyalty programs and targeted promotions.

Spatiotemporal Analysis of US Traffic Accident Hotspots
MODELS & TOOLS: MONGODB, PYTHON, GEOSPATIAL ANALYSIS
Contributed to big data analysis pipeline and co-authored the final report on identifying traffic accident clusters across time and geography.

Cotton Crop & Weather Analytics Dashboard
MODELS & TOOLS: GOOGLE PUB/SUB, BIGQUERY, LOOKER STUDIO
Created insightful dashboards using Looker Studio for visualizing crop patterns and weather anomalies. Focused on seamless user experience and report clarity.