Fangyuan ZHU
fyzhu.2022@mitb.smu.edu.sg ● +65 9052 2524 ● linkedin.com/in/zhu-fangyuan/

WORK EXPERIENCE

Business Analyst Intern – Project Management Office (Digital Transformation)　　　　**Jan 2023 - Sep 2023**
YARA INTERNATIONAL ASA – Singapore

- Achieved a cost-saving of 400k SGD annually by spearheading the development of an in-house OKR tracker PowerApp Application, eliminating the need for external software.
- Improved operational efficiency by over 70% through the creation of a PowerBI dashboard that tailor-fits the relational databases, allowing instant viewing of OKR records by employee reporting layers, providing valuable insights from statistical metrics.
- Created comprehensive product user manuals and supported training sessions for international colleagues, ensuring a smooth adaptation and understanding of the PowerApp application and PowerBI dashboard.

Associate Data Analyst Intern - Project Management Office　　　　**Feb 2020 - Apr 2020**
RED STAR MACALLINE GROUP CORP LTD. - Shanghai, China

- Effectively facilitated analysis by maintaining and processing extensive datasets with MS Excel on house-decoration daily sales, providing insightful statistical summaries for senior data analysts.
- Enhanced customer mapping precision by 30% through the strategic clustering of customers based on variables like locations and response rates.
- Improved user satisfaction and return rates by 10% through engagement with customers, collecting user feedback and translating it into actionable insights.

PASSION PROJECTS (View on GitHub)

ED Outcome Prediction with Machine Learning　　　　**July 2023 - Aug 2023**

- Reached a 5.6% improvement in prediction accuracy, reaching an AUPRC of 0.74 through the fine-tuning of Gradient Boost models on the MIMIC-IV dataset.

Reducing Hospital Bed Occupancy Rate　　　　**Jan 2023 - Apr 2023**

- Enhanced data cleansing efficiency by removing 12.5% of low-frequent records from 318,436 records for predictive modeling by implementing Frequent Pattern Mining on hospital bed occupancy data.

Applied Statistical Analysis on Stock Market　　　　**Aug 2022 - Nov 2022**

- Obtained a precision of 0.75 by utilizing the ARIMA Time series forecasting model. Contributed to an R-Shiny App, designed to visualize and predict real-time Yahoo API stock market prices.

EDUCATION

SINGAPORE MANAGEMENT UNIVERSITY - Singapore　　　　**Aug 2022 - present**
Master of IT in Business (Analytics Track)

- MITB Scholarship, SMU (2022), Grade: Merit.
- Data Science for Business, Python Programming, Algorithm Design, Digital Transformation

BEIJING INSTITUTE OF FASHION AND TECHNOLOGY - China　　　　**Oct 2020 - July 2021**

- Certificate of Fashion Design

SOUTHWESTERN UNIVERSITY OF FINANCE AND ECONOMICS - China　　　　**Sep 2016 - Jun 2020**
Bachelor of Statistics

- Probability Theory and Statistics, Multivariate Statistical Analysis, Regression Analysis, Time Series Analysis, Mathematical Analysis, Higher Algebra, Data Mining

SKILLS

- **Programming Language:** Python, R, SQL
- **Data Analytics Packages:** Numpy, Pandas, matplotlib, scikit-learn, Tensorflow, seaborn, ggplot2, dplyr
- **Data Analytics and Modeling:** Machine Learning, Statistical Modeling
- **Tools:** MS Excel, SharePoint, MS Automate, Tableau, PowerBI, PowerApp, JMP, SAS, AWS, GitHub
- **Soft Skills:** Efficient collaboration and communication with cross-functional teams

ADDITIONAL

- Certificate: - SIGMA Global Virtual Course: Digital Transformation, WU (2023)
  - The Complete SQL Bootcamp, Udemy (2023)