

ROGERS LEE

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Experienced data scientist with a history of working closely with cross-functional teams to guarantee the precision and reliability of data and insights. Proficient in spearheading predictive modeling projects and delivering practical insights to enhance business efficiency and achieve strategic objectives.

EXPERIENCE

Data Scientist | ZIDEA | Singapore, Singapore

February 2020 – October 2023

- Increased customer acquisition by 20% by researching and applying machine learning algorithms to optimize marketing strategies.
- Orchestrated the creation of a comprehensive real-time reporting infrastructure for executives and stakeholders by leveraging SAS, Tableau, and proprietary systems; enabled timely data-driven insights, resulting in a 15% increase in revenue and streamlined processes across the organization.
- Communicated with stakeholders to develop interactive dashboards that led to a 20% improvement in operational efficiency and a 25% reduction in response time to critical issues, enhancing decision-making processes across the organization.
- Restructured and managed AI-based databases, implementing data cleaning and preprocessing techniques to enhance data quality by 26% and reduce data retrieval time by 35%.
- Worked closely with a team of data engineers and BI analysts to improve the efficiency customer recommendation analytics engine by 33%.

Machine Learning Engineer | WebZap Technologies | Wan Chai, Hong Kong

January 2016 – December 2019

- Collaborated with a startup to build a chatbot using NLP techniques, which reduced customer support response times by 50% and improved overall user experience.
- Built a custom computer vision application for a client in the retail industry, enabling automated product recognition and inventory management, resulting in a 30% reduction in stock discrepancies.
- Led the development of a real-time fraud detection model, resulting in a 40% reduction in fraudulent transactions and saving the company \$1 million annually.
- Created a customer attrition random forest model, improving monthly retention by 6 basis points for customers likely to attrit by servicing relevant product features for them.
- Validated incoming data to check information accuracy and integrity while independently locating and correcting concerns to ensure a 95% accuracy rate in data validation.

Machine Learning Researcher | Hong Kong University of Science and Technology | Clear Water Bay, Hong Kong

November 2013 – December 2015

- Determined, using Python clustering methods, groups of states where underwriting models were underperforming, and owned improvements to increase profit by 4%.
- Developed a novel deep learning model that achieved a 30% increase in prediction accuracy for medical image analysis.
- Designed custom natural language processing (NLP) models for sentiment analysis, gaining academic recognition for outperforming 20% of existing benchmarks.
- Extracted data from 7 disparate sources, and increased agility and accuracy with a centralized system.
- Created machine learning models to improve inventory management, leading to a 21% decrease in stockouts and a 18% increase in inventory turnover.

EDUCATION

Master of Science(MS), Data-Driven Modeling | Hong Kong University of Science and Technology (HKUST)
December 2013 – June 2015

Bachelor of Science(BS), Mathematics | Hong Kong University of Science and Technology (HKUST)
April 2010 – October 2013

SKILLS

- Data analysis and trend identification
- Predictive modeling
- Data cleaning and preprocessing
- Data Mining
- Statistical Analysis
- Machine Learning model development
- Time Series Forecasting
- Natural Language Processing
- Recommendation Engines
- Elastic Search
- Custom Chatbots using LLM
- Computer Vision
- Web Scrapping
- Web application development using AI
- Communication and Presentation Skills
- Python/R Programming
- SQL Database Management
- Python Libraries for Data Science
- Deep Learning Frameworks
- MySQL
- PostgreSQL
- Data Visualization (Tableau, Power BI, etc.)
- Big Data (Hadoop, Spark)
- Streamlit
- Flask
- Snowflake
- JavaScript/TypeScript
- React/NextJS
- NodeJS
- Tailwind CSS