

EDUCATION

NUS BUSINESS SCHOOL, NATIONAL UNIVERSITY OF SINGAPORE

Master of Science in Business Analytics

Singapore

Jul 2024 - Sep 2025

- Coursework: Fraud Analytics, Econometrics, Quantitative Risk Management, Transforming Organisations with Data Storytelling, Data Science for Online Marketplaces, Cloud Computing, Neural Networks & Deep Learning, Operations & Research

PEC UNIVERSITY OF TECHNOLOGY

Bachelors of Technology

India

Aug 2017 - Jun 2021

- Course work: Electrical Engineering, Programming with C++, Probability & Statistics

EXPERIENCE

ZURICH INSURANCE (Global provider of insurance and risk management solutions)

Singapore

Data Science Intern (Building models, dashboards, and directing business decisions)

Feb 2025 - Sep 2025

- Designed an insurance dashboard with Power BI and Python using Medallion Architecture to provide actionable insights on risk, hazard grade and adequacy, enabling leadership to reduce risk exposure by 35% and accelerate decision-making by 50%
- Automated end-to-end reporting for insurance data using Python and Medallion architecture, building Azure pipelines and workflows to cut manual workload by 70%, improve data accuracy by 25%, and reduce report delivery time by 50%

EXL SERVICE (Global provider of data-driven business process solutions and analytics)

India

Consultant (Leveraged data insights to drive informed decision-making)

Jan 2023 - Jul 2024

- Led the Marketing Strategy with direct client interaction for a top US insurance company and developed monthly targeted plans using Python, SQL and Excel resulting in optimised resource allocation and higher potential buyer outreach
- Executed a 4-step direct mail marketing process using Python, SQL, and Excel to score key metrics, suppress redundant data, and design a detailed strategy including offers and distribution frequency for two communication modes
- Conducted ad-hoc analysis in each process cycle using Python, SQL and Excel, adapting to real-time factors for optimal strategy refinement, cutting down process completion time by 40% and transitioning it to a single-handed operation

Business Analyst (Analysed data to support strategic decision-making)

Jul 2021 - Dec 2022

- Led migration (from SAS to Python, SQL) of dashboards and reports for a key US client leading to enhanced efficiency of dashboards and reports by 80% through automation, reducing manual intervention and processing time by 50%
- Awarded EXL Recognition Award by client for performance in Migration Project

ZENATIX SOLUTIONS (Refines energy management and operational efficiency using analytics)

India

Business Analyst Intern (Deliver advanced IoT-based analytics to drive sustainability)

Jan 2020 - May 2020

- Led report generation using Python, PowerPoint, and Excel to analyse real-time data, identifying inefficiencies in electrical equipment and driving 60% energy savings and increased profits through preventive maintenance
- Decreased operational time by 60% through automation of analytics process by reworking analysis platform from Excel to Python whilst devising and suggesting solutions to a wide array of clients by identifying localised effects of segmental aspects

ACADEMIC PROJECTS

NATIONAL UNIVERSITY OF SINGAPORE

Singapore

Masters in Business Analytics

- Spearheaded SamurAI, a GenAI-powered chatbot for dementia care, combining emotion detection (ResNet), speech transcription (WhisperX), and caregiver-guided RAG pipeline (Gemma) to deliver real-time support and cognitive engagement
- Developed CardShield, a credit card fraud detection system using CatBoost with RandomOversampling and advanced feature engineering, integrated a large language model interface to deliver real-time fraud insights and enhance user decision-making
- Developed a distracted driver detection system using advanced deep learning models (YOLOv8, ResNet50), improving real-time identification of risky behaviours, significantly enhancing driver safety and enabling proactive accident prevention
- Developed a Tableau dashboard analysing customer preferences, dish profitability, and demographics to identify high-potential outlet locations, driving 20% projected revenue growth and 15% marketing efficiency improvement
- Supported research on AI Shock through A/B testing of ChatGPT outage data, developing treatment and control frameworks to measure user and performance outcomes

CERTIFICATES & SKILLS

- Great Learning Bootcamp: Python, SQL, SAS, Machine Learning, Deep Learning, Tableau
- Kaggle: Generative AI Intensive course with Google
- Anthropic: Basic & Advanced topics for Model Context Protocol
- Technical Skills: Python, SQL, Tableau, Power BI, Machine Learning, Deep Learning, Azure Cloud – Logic App Workflow & Pipeline Development, ETL Automation, Data Modelling, Business Intelligence, Risk & Marketing Analytics, Data Storytelling, Workflow Orchestration, Generative AI, OCR Integration, Chatbot Development, Model Context Protocol