ANUSHK FARKIYA

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EDUCATION

Artificial Intelligence — *Master of Information Technology*	JAN 2023 - JULY 2024
Singapore Management University, School of Computing	Singapore

Finance — *Bachelor of Science*	SEPT 2015 - JULY 2018
Lancaster University Management School	United Kingdom

WORK EXPERIENCE

Clifford Capital Holdings — *AI Intern* — JUL 2023 - JAN 2024
- Designed and implemented a QA chatbot on AWS using Python, NLP, and Retrieval-Augmented Generation (RAG) architecture. Integrated Llama and Mixtral models for advanced text generation and summarization, significantly reducing deal due diligence time by 30% through automated insights and efficient data retrieval.
- Developed a web scraping tool using Python, Selenium, and Scrapy to fully automate environmental risk data extraction. Utilized this data to construct advanced risk analysis models, providing insights and strategic recommendations for investments across APAC and Africa.

Gratia — *Data Analyst* — MAR 2022 - JAN 2023
- Analyzed big datasets and visualized to understand trends in North America's media sector. Created interactive dashboards for a client with Tableau and custom graphs, providing clear insights on competitor landscape, market conditions and recommending future strategy.
- Engineered a robust data pipeline by implementing Python web crawling tools such as Selenium and Scrapy, incorporating data preprocessing and validation steps to detect anomalies and filter irrelevant data. This comprehensive pipeline significantly enhanced data quality by 30% through systematic cleaning and aggregation.
- Researched leading technology firms' data strategies for client; conducted quantitative analysis and data mining to optimize data utilization, driving improvements in customer service and financial growth metrics as well as offered recommendations for devising their own data strategy.

CRE Matrix — *Data Analyst* — AUG 2020 - DEC 2021
- Implemented a Python-based automated error-detection system for real estate datasets, leveraging custom algorithms to identify erroneous entries and outliers. This initiative resulted in a 70 percent acceleration in data cleaning and processing speeds.
- Developed a comprehensive in-house market analysis platform by employing advanced statistical methods, including time series analysis and regression, to analyze complex datasets. Preprocessed the data to train predictive models that accurately forecast residential housing prices in India's metropolitan cities, providing actionable insights for market trends and investment strategies.

Circles.Life — *Founder's Office Intern* — SEPT 2019 - APR 2020
- Leveraged advanced data analytics to gain deep insights into customer behavior, identifying key data features and uncovering root causes of customer churn. Conducted cohort analysis to segment customers for targeted study, enabling the team to provide strategic advice for highly effective, personalized marketing. This approach significantly enhanced the precision and impact of future marketing campaigns.
- Developed a unit economics model for the Australian 5G fibre market, aiming at business expansion. This model took into account critical factors, including customer demand, usage patterns, competitive landscape, regulatory environment, and pricing strategies. Provided a nuanced understanding of the market dynamics and offered strategic insights to support business expansion in the APAC region.

TECHNICAL PROJECTS

University Project — *Investor sentiment analysis using FedSpeak dataset* — SEPT 2023 - DEC 2023
- Trained a multi-class classifier using pretrained LLM like BERT and FLAN T5 to predict whether investor sentiment is Bullish or Bearish based on FedSpeak quaterly announcements.

University Project — *Garbage detection model* — APRIL 2023 - JUNE 2023
- Trained YOLO V3 model for object detection and vision transformer for image classification of garbage images. The model would return if the garbage is recyclable or not. Achieved an 83 percent accuracy on test images.

University Project — *Minimize lap time in F1 race with Reinforcement Leaning* — AUG 2023 - NOV 2023
- Developed a Deep Q-Network (DQN) model to minimize lap time in a simplified F1 race simulation, leveraging neural networks to approximate Q-values and guide an agent's actions towards optimizing pitstop and tyre change decisions to achieve the objective.

Kaggle Project — *Home Credit - Credit Risk Model Stability* — DEC 2023 - APR 2024
- Developing a prediction model to evaluate loan risk to better evaluate cases with lack credit history or client default risk based on customer data.

NUS- NCS Hackathon — *Traffic optimization with LLM (4th place)* — FEB 2024 - APR 2024
- Developed a web application using LLMs to optimize traffic flow in Singapore. Integrated response scenarios for traffic planners with recommended routes and action steps. Also, added functionality to interact with the database via chat and generate rapid visualization.

TECHNICAL SKILLS

Languages:	**Cloud**:	**AI and ML**:	**Data Analysis**:	**Web Dev**:	**Additional**:
Python, SQL, RStudio	AWS, Google Cloud	Pytorch, Tensorflow	Pandas, Numpy, MatplotLib	Flask, Streamlit, Gradio, Django, React	IBM Cplex