Amrit Basi

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Work Experience

Machine Learning Engineer, G3NR8 – London, *Fix Term Contract*   Nov 2023 – Present
- Developed novel techniques to extract purchasing behaviour from unstructured data using large language models such as GPT, Llama and Mixtral
- Built web crawlers to extract additional data improving the output accuracy of current LLMs
- Developed in house applications to anonymise confidential financial transcript data using named-entity recognition models
- Fine tuned SDXL using Low Rank Adaptation to generate marketing material for clients

Data Scientist, BIMA Milvik – London   June 2022 – Nov 2023
- Built transaction models finding over £400,000 plus an additional £5,000 a month in unaccounted revenue
- Integrated large language models such as LeMUR to transcribe and analyse outbound calls improving compliance
- Maintained and optimised the code base for call centre operations, ensuring daily sales continue to operate
- Developed and deployed deep neural networks on AWS to predict fraudulent sales minimising the risk of litigation
- Implemented data pipelines to ensure local markets in Africa and Asia have access to one central source of truth

Financial Data Scientist, ETX Capital – London   Oct 2021 – June 2022
- Built models to predict the probability of a customer depositing funds improving client management and sales resources
- Establish processes to clean and maintain trading and customer data improving financial and legal reporting
- Owned and improved the process to automate KPI reports for C-Suite and investors ensuring reliability
- Redesigned day-to-day processes after a merger with a neo-bank and a transformation in business strategy

Data Analyst, Leesman – London   Sept 2019 – Oct 2021
- Researched and delivered comprehensive workplace strategy reports for a diverse clientele, including investment banks, pharmaceutical companies, and government entities.

Projects

Ski-GPT   Dec 2023
- Built a full-stack application to recommend ski resorts based on user preferences and budget restrictions
- Integrated Open AI's assistant for dynamic web browsing to return real time pricing and availability
- Developed an algorithm to evaluate and rank lists of resorts based on user input

Diamond Goose Ad-Suite   June 2023
- Developed an application to extract all images from a given shopify catalogue and perform transformations in memory using open source computer vision models
- Hosted the application on StreamLit allowing luxury clothing brands to readily create instagram ads

Skills

Languages: Python, SQL, C++, JavaScript
Frameworks: PyTorch, TensorFlow, NumPy, Pandas, Sci-Kit, XGBoost, NLTK, OpenCV, Flask, Django

Education

University College London – Bachelors of Science in Physics, Second Class Honours   2016 – 2019