

# Amrit Basi

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## Work Experience

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**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

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**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

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**Languages:** Python, SQL, C++, JavaScript

**Frameworks:** PyTorch, TensorFlow, NumPy, Pandas, Sci-Kit, XGBoost, NLTK, OpenCV, Flask, Django

## Education

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

2016 – 2019