Avkaran Klair

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PROFILE

A passionate problem-solver with a deep curiosity for emerging AI technologies (LLMs, Generative AI). 8 years of Python coding experience, specialising in data science, machine learning, and software engineering. Experience as a corporate data scientist, honing my ability to transform real-world data into actionable insights, designing bespoke ML models to uncover trends in luxury retail. Beyond professional roles, I explore the intersection of data and sports, working on predictive modeling and data analysis projects in football, MMA, and cricket.

Leveraged data to extract actionable insights that enhanced understanding of customer

09/2023 - 09/2024

London.

PROFESSIONAL EXPERIENCE

Data Science Intern, Burberry

 Developed machine learning models to identify high-potential customers by analysing their transaction behaviours, to consistently improve customer retention by an average of 6-10%. Enhanced agile development by working extensively with a PaaS (Databricks) to deliver projects. 	United Kingdom
 Maths and Science Tutor, Cherry Hill Tuition Tutored students from Primary to A-level in Maths and Sciences Aided students to tackle difficult problems using problem-solving techniques like decomposition and abstraction. Improved maths student grades from D/C to A/A*. 	10/2020 - 07/2021 London
 Maths and Science Tutor, Boost Education Guided student classes to apply mathematical methods to solve complex problems. Accelerated learning of core concepts such as Algebra, Geometry and Mechanics 	05/2019 - 12/2019 London
EDUCATION	
BSc Computer Science and AI, Loughborough University Studying core concepts: Natural Language Processing, Cloud Computing, Logic, Algorithms, Computer Vision, Software Engineering, Maths, Data Mining & Machine Learning, AI Methods	2021 - 2025
A levels, Greenford High School Post 16 3 A levels: Maths-A, Computer Science-A, Physics-B	2018 - 2020
GCSEs, Greenford High School 11 GCSEs (9-6) including: Physics (9), Biology (9), Maths (8), English Literature (8),	2016 – 2018 London

PROJECTS

Computer Science (7)

Premier League Football Score Predictor

- Developed an ensemble model leveraging Scikit-learn's Linear Regression and K-Nearest Neighbours classification to predict Premier League match outcomes and final standings for the 2018-19 season.
- Achieved an 84% accuracy in predicting correct results

Predicting Customer Lifetime Value (CLTV) + Churn, Burberry

- Leveraged Burberry's Likelihood-To-Transact (LTT) Modem library to identify key customer behaviours influencing spend and churn prediction for the next 12 months.
- Constructed an XGBoost regression model using a zero-inflated lognormal distribution (ZILN) objective function to more accurately predict both CLTV and churn in high-value customers, overcoming traditional mean-squared-error limitations when predicting spend.
- Increased customer retention by 7% through outreaching to the exit-bound customers

Confluence, Productivity & Knowledge Management System

- Developed a productivity management tool that helps individuals and teams manage tasks and track project progress.
- Created a knowledge management module for sharing technical and non-technical information within the company.
- Presented the system to clients, succeeding their project requirements.

Daniel Lee Bags LTT Model, Burberry

- Utilised Burberry's LTT Modem library to identify key behaviours indicating potential purchasers of Daniel Lee bags.
- Discovered previous outerwear and bag purchases were significant predictors.
- Enhanced bag purchaser conversions by 12% opposed to using generic LTT model (validated through A/B testing).
- Successfully deployed the model in ongoing bag marketing campaigns.

POSITIONS OF RESPONSIBILITY

Educate to Save, Khalsa Cup

01/2019 - 05/2019

• Launched a charity football tournament to raise money for children in poverty from India.

London

• Actively raised over £23,000 for Educate to Save

Sports Secretary of Punjabi Society, Loughborough University

03/2022 - 03/2023

- Co-Founded Punjabi Society, and the head of sports secretary.
- Organised sports events such as football matches and collaborating with other universities
- Designed merchandise for the committee to capture the culture of Punjab.

SKILLS

Python – Expert

Experience in libraries and frameworks: Pandas, NumPy, Sci-Kit Learn, TensorFlow, Pyspark

Functional Programming — Expert

Java — Proficient

SQL – Expert

Machine Learning — Expert

Experience in algorithms: SVM, Linear Regression, Random Forest, Neural Networks, Bayesian Networks

Object-Oriented Programming — Expert OOP paradigm experience through Java

JavaScript — Expert

REFERENCES

References available on request