

Personal Information:

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Personal Profile:

Recent Computer Science with Artificial Intelligence graduate (2:1) with hands-on experience in machine learning, data analysis and predictive modelling. Skilled in applying algorithms to real-world datasets and building AI systems such as fraud detection models, reinforcement learning agents, and CNN classifiers. I am looking to contribute in organizations with a need for data and machine learning.

Technical Skills:

- Programming: Python, C#, Java, SQL
- AI/ML: Scikit-learn, TensorFlow, PyTorch, Pandas, Numpy, ARIMA, LSTM, PPO
- Data Science: Data Mining, Data Cleaning, Feature Engineering, Data Visualisation (Matplotlib, Seaborn)
- Tools & Platforms: Jupyter Notebook, Git, VS code, Kaggle, Unity

Notable Projects:

- D&D Battle Simulator (Unity, C# + Python)
 - o Developed a grid base battle simulator in unity using reinforcement learning to train monster AI on strategic battle tactics.
 - o Implemented pathfinding, turn-order logic, and combat mechanics.
 - o Designed and fine-tuned a reward system for training agents on movement, attacking and strategy.
- Credit Card Fraud Detection (Python, Data Mining)
 - o Conducted data mining on a big data Kaggle dataset of transactions.
 - o Built and compared multiple ML models (Logistic Regression, Random Forest, Neural Networks).
 - o Achieved high accuracy in fraud detection through feature engineering and model optimization.
- RGB vs. CMYK Image Classification (Python, TensorFlow)
 - o Built and trained Convolutional Neural Networks to classify over 140 image categories.
 - o Compared performance between RGB and CMYK image datasets.
 - o Developed a modular pipeline for image conversion, training, testing, evaluation.
 - o Implemented custom evaluation metrics including confusion matrix and classification reports.
- Weather Prediction System (Python, Machine Learning)
 - o Developed an AI pipeline to forecast weather trends using large-scale Kaggle dataset, including data cleaning and feature engineering to merge and process multi-year weather data

- Built and tested predictive models including ARIMA and Ridge Regression with cross-validation.
- Extended datasets with future timestamps and predictors for 30 day-ahead forecasting.
- Conducted exploratory data analysis and visualization of seasonal patterns and prediction accuracy.

Education:

Brighton University (Sept 2022 – July 2025)

Bsc (Hons) Computer Science with Artificial Intelligence (2:1)

Worthing College (Sept 2020 – July 2022)

A-Levels: Computer Science (D), Mathematics (D), Electronics (C)

Worthing High School (Sept 2010 – July 2014)

GCSEs: Maths (B), Drama (B), Product Design (B), English Language (C), Science (C), Additional Science (C), Information Technology (C), English Literature (D), Business Studies (D)

Employment History:

- Bohemia Brighton – Front of House / Bar Team (Feb 2023 – Present)
 - Progressed quickly to running floor operations, including helping and training new staff.
- Escape Bar & Grill – Barman / Waiter (Jan 2022 – Aug 2022)
 - Delivering high-quality customer service while also contributing to bar menu design and pricing strategies.
 - Gained barista and cocktail training, demonstrating adaptability and continuous learning.
- Mangiamo – Barman / Waiter / Host (Jul 2020 – Dec 2021)
 - Mentored staff across bar and floor operations
 - Assisted management in ensuring excellent customer experience during peak hours.
- Tesco – Customer Assistant / Warehouse Operator (Dec 2020 – Aug 2021)
 - Managed stock logistics and seasonal promotions in a large team environment.
 - Developed organizational and resource management skills.
- Vodafone – Sales Advisor (Jul 2019 – Feb 2020)
 - Advised Customers on devices, upgrades, and technical troubleshooting.
 - Improved communication and technical problem-solving skills.
- The Warwick Pub – Bar Supervisor (Feb 2017 – Jun 2019)
 - Supervised shifts, managed stock deliveries, and supported upper management.
 - Built strong leadership and multitasking skills.

References:

Available upon request.