

As a highly skilled Computer Scientist specialized in Artificial Intelligence and one year of experience as a Machine Learning Engineer, I am excited to pursue new opportunities in data science and machine learning roles. I have a strong background in working with data, including data analysis and data visualization, as well as developing and implementing machine learning algorithms in Python. I possess the skills and expertise necessary to excel in challenging and dynamic environments.

## Experience

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<b>Machine Learning Engineer</b>	<b>Cerno Health</b>	<b>09/2021 - 12/2022</b>
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- Successfully developed, implemented, and tested the nocturnal sleep and nap detection algorithms with machine learning.
- Achieved over 4x better accuracy performance in sleep detection compared to the previous solution.
- Analysed signal data including heartrate and accelerometer signals using Python, AWS, Numpy, Pandas and Matplotlib.
- Effectively utilised data in a cloud environment - AWS, using various cloud services; S3, DynamoDB and Lambda.
- Leveraged hyperparameter tuning to optimize network configuration and maximize algorithm performance.
- Developed a data pre-processing and cleaning pipeline to effectively clean and transform data into suitable format.
- Presented data reports and data visualizations to explain algorithm work and analysis to non-technical audiences.
- Monitored and tracked the data trial and ensured high quality data throughout data collection.
- Researched and implemented state-of-the-art literature during development and used advanced feature engineering.

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<b>Money Exchanger</b>	<b>Post Office</b>	<b>03/2015 - 04/2019</b>
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- Working in the travel bureau; exchanging a wide range of currencies, issuing travel cards and insurance.
- Provided additional services including passport notarisation, document verification and processing parcels.
- Helped train and induct new colleagues into their new roles. Honed my customer service skills.

## Education

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<b>Master's</b>	<b>Queen Mary, University of London</b>	<b>09/2020 - 10/2021</b>
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- **MSc in Artificial Intelligence**, October 2021, Grade: Distinction, 73%.
- Modules: Artificial Intelligence, Bayesian Decision and Risk Analysis, Data Mining, Machine Learning, Machine Learning for Visual Data Analysis, Music Informatics, Neural Networks and Natural Language Processing.

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<b>Bachelor's</b>	<b>Goldsmiths, University of London</b>	<b>09/2017 - 08/2020</b>
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- **BSc in Computer Science**, August 2020, Grade: First Class Honours, 80%.
- Modules: Algorithms and Data Structures, Databases and the Web, Data Mining, Machine Learning, Mathematical Modelling for Problem Solving, Neural Networks, Principles & Applications of Programming, Web Development.

## Projects




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- **Automatic detection of sleep micro-events with Convolutional Recurrent Neural Networks** (2021).    
Implemented and employed a CRNN model architecture, able to successfully identify sleep micro-events.
  - **Cryptocurrency forecasting using Recurrent Neural Networks on historical price data** (2020).  
Application to predict future prices and trends of cryptocurrencies exploring RNN's, GRU's and LSTM's.
  - **Fitness mobile application 'EasyFit' to monitor a user's cardio exercise** (2019).  
Team project designing and building an ios application to track fitness with user-tailored route generation.

## Skills

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**Data science:** Machine learning, Artificial Intelligence, Signal processing, Data analytics, Data mining, Data visualization, Deep learning, Neural Networks, Natural Language Processing, Error analysis, Hyperparameter optimization. **Programming:** Python, Java, JavaScript, MATLAB, VB, R, Swift, Bash. **Frameworks:** Tensorflow, Keras, Scikit, PyTorch. **Libraries:** Numpy, Pandas, Matplotlib, Librosa. **Web & database:** HTML, CSS, jQuery, SQL, PySpark, MongoDB. **Tech:** GIT, AWS, LaTeX, Colab, Jupyter, Conda, Pip, Microsoft Office (Access, Excel, PowerPoint, Word).

## Certificates

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- **DeepLearning.AI: Convolutional Neural Networks** (2023). 
  - **DeepLearning.AI: Sequence Models** (2022). 
  - **DeepLearning.AI: Introduction to Machine Learning in Production** (2022). 

## Hobbies

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Biking, Hiking, Exhibitions/Museums, Travelling/Exploring, Table tennis, Chess, Arcade games, Kaggle. 