

# Brandon Amarasingam

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## DATA SCIENTIST

Results driven data enthusiast with a strong mathematical and statistical background, coupled with extensive experience in the digital assets market. Seeking to bring proven expertise to a dynamic role as a Data Scientist, where I can contribute immediately to data-driven decision-making and business success.

## TECHNICAL & INTERPERSONAL SKILLS

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**Languages and Libraries:** Python, Scala, Scikit-Learn, NLTK, PyTorch, TensorFlow, Keras, PyMC, BeautifulSoup, Pandas, SAS, Java, C++, SQL, MATLAB, HTML, LaTeX, Matplotlib, Seaborn

**Tools:** Version Control (Git), Distributed Computing (Spark), Various APIs, Jupyter Notebook, Azure

**Interpersonal skills:** Problem solving, Organization, Time Management, Communication, Collaboration

## DATA SCIENCE PROJECTS

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**BEV Growth Within WA** | [GitHub](#) | Python | Streamlit

Engineered a Streamlit application for visualizing growth projections of BEVs in Washington State  
Applied ARIMA and VARMA models to forecast BEV expansion trends, leveraging public datasets from the US government site for robust analysis and predictive models

**Detect AI vs Human Text** | [GitHub](#) | Python

Developed a precision-tuned classification model to discern human and AI-generated responses  
Utilized ChatGPT API for AI responses and the Reddit API to curate a diverse human response dataset, enhancing model robustness  
Applied cutting-edge NLP techniques for the analysis and classification of responses

## EXPERIENCE

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**Laughpad, Machine Learning Engineer/Technical Advisor**

*Toronto, ON 06/2023 - Current*

Developed a laughter recognition model with PyTorch, using three open-source datasets for training  
Tailored and fine-tuned models for diverse scenarios; optimized ResNet with Data Augmentation for improved performance in noisy environments  
Deployed the solution on Azure

**General Assembly, Data Science Fellow**

*New York City, NY 08/2023 - 11/2023*

Successfully completed a 480 hour rigorous data science fellowship, where expertise in machine learning techniques were further honed and refreshed  
Techniques: Transfer Learning, Natural Language Processing, Computer Vision, Bayesian Inference, Time Series Analysis, Unsupervised Clustering Algorithms, A/B Testing, Various Regression and Classification Machine Learning Algorithms, Deep Learning Techniques

**Henowick Holdings, Digital Assets Investor and Trader**

*Calgary, ALB 09/2021 - 04/2023*

Engaged in various activities to profit from digital assets including trading, staking, yield farming  
Implemented effective risk management techniques to mitigate potential losses and maximize profits  
Tracked and analyzed market data, utilized technical analysis tools, and made informed decisions to optimize investment outcomes

## EDUCATION

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**General Assembly, Data Science Immersive**

*New York City, NY, Graduated: 11/2023*

**Carleton University, Bachelor of Mathematics, Statistics**

*Ottawa, ON, Graduated: 09/2020*