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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **Deep**  **Bhojak**     |  |  | | --- | --- | |  | bhojakdeep@yahoo.com | |  | 647-937-8088 | |  | North York, ON M3H4V6 | | | **Skills**   * **Financial Fundamentals:**   + - Time Series Analysis.     - Financial Ratios/Analysis/ Modelling. * **Programming and Financial Libraries:**   + - Python, Pandas, PyViz.     - APIs, AWS, SQL.     - Numpy, SciPy. * **Machine Learning Applications:**   + - Algo Trading.     - Random Forest.     - K-Nearest Neighbors.     - Tenso Flow.     - Keras. * **Supervised Learning**:   + - Classification.     - Regression. * **Unsupervised Learning**:   + - Deep Learning.     - Neural Networks. * **Natural Language Processing**:   + - Deploying sentiments model with Python. * **AWS:**   + - AWS Sage Maker, Amazon Lex, Amazon Lambda. * **Blockchain and Crypto:**   + - Ethereum Smart Contracts with ERC720/721 tokens.     - Solidity.     - Ganache/Meta Mask user friendly.     - Distributed Ledger.     - Validation.     - Transactions.     - Consensus Algorithms.   **Education**  University of Toronto  Toronto, ON •  02/2022  *Financial Technology Certified* :  <https://drive.google.com/file/d/1cDfVv4sgt0v9YMAL9g8DBC4uEBSYWJJ5/view?usp=sharing>  Seneca College of Applied Arts and Technology  North York, ON •  11/2017  *Advanced Diploma* : Aviation Operations/Safety  **Certifications**   * **Licensed Mortgage Agent** (REMIC Certified). * **Crash Course on Python.**   Issuing Institute: Coursera  <https://drive.google.com/file/d/1qp7wbmoBS97v9vqQ2CLX0F1C_I8CS_5Z/view?usp=sharing> | |  | | |  | | --- | | **Professional Summary**  I am a certified Fintech Professional from University of Toronto(A+). I have hands on experience with a wide range of projects based on Machine Learning/Artificial Intelligence, Data Analysis/Visualization, Blockchain development and Ethereum Solidity Smart Contracts. I had accomplished Aviation Operations and Safety as academics and have been working in the aerospace industry for over four years now as a data reporting analyst. I had later decided to take a deeper dive towards Computer science majoring in Machine Learning and Block-chain, and now after being successfully certified, I am actively looking for new opportunities. I also be of service to everyone as a mortgage agent with Mortgage Alliance. | | **Links**  [**https://github.com/Deep-space1**](https://github.com/Deep-space1)  **Work History**  A-line Aerospace - Data Reporting Analyst   Toronto, ON •  05/2019 – current   * Ph: 6475275436. * Interpreting data, analyzing results using statistical techniques. * Maintained Databases and performed updates as necessary to ensure consistent accuracy. * Design business analysis and data recording systems for use throughout the department * Developing and implementing data analyses, data collection systems and other strategies that optimize statistical efficiency and quality. * Monitor data to identify changes in financial and business trends * Ability to program in Python as related to data manipulation and analysis. * Applied models and data using python to understand costs of aeronautical parts in the market and presented findings to the management.   OLIMP MFG – Free Lance (Data Reporting Analyst)  Mississauga, ON •  01/2017 - 05/2019 .1235A aero wood drive, Mississauga, ON.   * Monitor data to identify changes in financial and business trends * Regularly examine data reports to locate and resolve mistakes throughout * Provide trends in data that could help improve business procedures and practices. * Communicate the results of data analysis in written and verbal form to managers. * Develop and maintain appropriate documentation in the form of business and functional requirements, status updates, estimates, and other materials, as requested by Manager.   Mortgage Alliance - Mortgage Agent  Sheppard, Toronto, Ontario •  03/2021 - Current   * Analyzing and comparing multiple loans for recommendation to the client. * Collecting and assembling required verifications to prepare for closing. * Ensuring strict compliance with all state and federal regulations. * Acting as the intermediary between potential lenders and borrowers.   **ProjecT Highlights.**   * **Thesis**: We, The Cryptic Crusaders are gaming avatar developer company where we sell the avatars in form of NFT ERC 721 Token. We also have a trading platform for players based on Ethereum smart contracts where players would be able to trade avatars amongst themselves using their own crypto wallets. We also intend dispatch the Initial Coin Offering of our Cryptic Coin which is an ERC720 token through which players would be able to make in app purchases.   **Link:** [**https://github.com/CrypticCrusaders/Capstone\_Project**](https://github.com/CrypticCrusaders/Capstone_Project)   * **Thesis**: After waiting for years and passing several tests, the Martian Aerospace Agency selected wants to establish human colony on Mars. As a prominent fintech professional, they chose a project developing a monetary system for the new Mars colony. I have decided to base this new system on blockchain technology and to define a new cryptocurrency named KaseiCoin. (Kasei means Mars in Japanese.) KaseiCoin will be a fungible token that’s ERC-20 compliant. I will launch a crowd sale that will allow people who are moving to Mars to convert their earthling money to KaseiCoin.   **Link:**  [**https://github.com/Deep-space1/KaseiCoinCrowdSale**](https://github.com/Deep-space1/KaseiCoinCrowdSale)   * **Thesis:** Due to the volatility of cryptocurrency speculation, investors often try to incorporate sentiment from social media and news articles to help guide their trading strategies. One such indicator is the Crypto Fear and Greed Index (FNG) which attempts to use a variety of data sources to produce a daily FNG value for cryptocurrency. I have built and evaluated deep learning models using both the FNG values and simple closing prices to determine if the FNG indicator provides a better signal for cryptocurrencies than the normal closing price data. I have used deep learning recurrent neural networks to model bitcoin closing prices. One model will use the FNG indicators to predict the closing price while the second model will use a window of closing prices to predict the nth closing price.   **Link**:  <https://github.com/Deep-space1/Stock-Predictor-LSTM>   * **Thesis:** Ever Heard of Acronym FAANG? if not, here it is-Facebook -Apple -Amazon. -Netflix -Google. A lot of people were using the FAANG, infact an index was created for the same to enhance their trading strategies. The idea behind this project is something similar, I've used the top 10 companies from Nasdaq 100 to predict future closing prices of the NASDAQ 100 Index. Top 10s Facebook, Amazon, Adobe, Netflix, Nvidia, Tesla, Alphabet Class A, Alphabet Class C, Microsoft. The reason being was the strong co-relation between the top 10. With the use of various machine learning models and different variables as features such as the Open, High, low, and the top 10, I have predicted the closing prices for NASDAQ 100 within a given period. Our hypothesis is to create a tactical (short-term) financial model that can predict future prices of the Nasdaq 100 Index over the next 10 days. By making predictions, an investor can use the model to buy (long) or sell (short) the Nasdaq Index via using Index ETFs or Index options (writing calls or puts).   **Link:**  <https://github.com/Deep-space1/NASDAQ-PRICE-PREDICTOR>   * **Thesis:** There's been a lot of hype in the news lately about cryptocurrency, so I wanted to take stock, so to speak, of the latest news headlines regarding Bitcoin and Ethereum to get a better feel for the current public sentiment around each coin.   **Link:**  <https://github.com/Deep-space1/TalesFromTheCrypto> | |  | |

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