

Pottumkal Allen Jose

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Internships

Machine Learning Intern - Summer Internship

May 2024 - Jul 20224

Board Infinity

- Implemented **Decision Tree** and **Random Forest** models on the **Wisconsin Breast Cancer Dataset** for tumor classification.
- Achieved **92.40% accuracy** with Decision Tree and **97.08% accuracy** with Random Forest.
- Optimized model performance through **hyperparameter tuning**, enhancing predictive reliability.
- Tech stacks used:** Scikit-learn, Pandas, NumPy, Matplotlib, Colab Notebook

SDE Intern - Virtual Internship

Apr 2024

JP Morgan Chase & Co.

- Set up the local development environment by configuring necessary files, tools, and dependencies for a smooth workflow.
- Resolved repository issues, ensuring the correct output of the web application.
- Integrated JPMorgan Chase's open-source library, **Perspective**, to generate live graphs for real-time data visualization.
- Tech stacks used:** Perspective, Python, Git

Projects

Handwritten Digit Recognition Using CNN | Python TensorFlow, Keras, Numpy, Matplotlib

Jan 2025 - Feb 2025

- Designed and implemented a **CNN model** using **TensorFlow** and **Keras** to classify handwritten digits.
- Achieved **98% accuracy** by optimizing the model architecture and training process.
- Preprocessed and normalized image data, utilizing the **Adam optimizer** for improved performance.
- <https://github.com/allenjose24/HandWritten-Digit-Recog-using-CNN>

LSTM Stock Prediction | LSTM, SVM, Plotly, Python, Matplotlib

Feb 2024 - April 2024

- Developed a **stock price prediction model** using **LSTM, SVM, and Linear Regression**, leveraging historical data for accurate forecasting.
- Preprocessed data and engineered features to enhance model performance.
- Evaluated models using **Mean Absolute Error (MAE)** and **Root Mean Squared Error (RMSE)**.
- Created visualizations using **Plotly** and **Matplotlib** for better analysis.
- <https://github.com/allenjose24/Stock-Price-Prediction-Using-LSTM-A-Data-Driven-Approach-with-Google-Stock-Data>

Certificates

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| Approximation Algorithms and Linear Programming Coursera University of Colorado Boulder | May 2024 |
| ChatGPT Advanced Data Analysis Coursera Vanderbilt University | Apr 2024 |
| Responsible AI: Applying AI Principles with Google Cloud Google Cloud | Oct 2023 |
| Leadership Communication for Maximum Impact: Storytelling Coursera Northwestern University | Mar 2023 |

Achievements

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| Participated in many Hackathons including iHack 2025 | Feb 2025 |
| Stood top 5 in Brain Busters Competitive Event Conducted by School of CSE, LPU | Nov 2024 |
| Secured 10th rank in the Python Boot Camp Organised by XomaxEdu | Sep 2022 |
| First in Elocution competition conducted by Diocese of Adilabad | Jul 2022 |

Technical Skills

Languages: Python, Java, Cpp

Technologies/Frameworks: TensorFlow, Pytorch, Sklearn, Matplotlib, Seaborn, Plotly, Colab

Skills: Machine Learning, Data Structures and Algorithms, Problem-Solving, Scripting in Python and Java, Team Player

Education

Lovely Professional University Punjab

2022 – 2026

Computer Science and Engineering — CGPA: 8.64

Phagwara, Punjab