Pottumkal Allen Jose

Linkedin: linkedin.com/in/allen-jose
Github: github.com/allenjose24
Portfolio: allenjose.netlify.app

Email: pottumkalallenjose@gmail.com
Mobile: +91-7660079071

SKILLS

Languages:	Python, Java, C++, C
Core Skills:	Machine Learning, DSA
Tools/Platforms:	Tensorflow, NumPy, Pandas, Matplotlib, Colab
Soft Skills:	Problem-Solving Skills, Team Player, Project Management, Adaptability

INTERNSHIP

J.P. Morgan Software Engineering Virtual Experience on Forage   Apr' 2024
Participant
- Configured the local development environment by setting up necessary files, tools, and dependencies, ensuring a seamless workflow.
- Integrated JPMorgan Chase's open-source library, **Perspective**, to generate a live graph, enabling traders to visually monitor **real-time data feeds**.
  Tech stacks used: Perspective, Python, Git

TRAINING

Summer Internship - Board Infinity   May' 2024 - Jul' 2024
Machine Learning Intern
- Implemented Decision Tree and Random Forest models on the Wisconsin Breast Cancer Dataset to classify tumors, achieving **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

PROJECTS

Harnessing Vector Space Models for Enhanced Machine Translation and Document Search   Sep' 2024 - Dec' 2024
- Developed an approach to enhance semantic understanding in machine translation using **MarianMT** and pre-trained word embeddings.
- Focused on cross-lingual information retrieval, evaluating translation effectiveness through **cosine similarity** and ranking algorithms.
  Tech: MarianMT, Google Translate API, GloVe, Plotly, Hugging Face, Cosine Similarity(Metrics).

Optimizing Cluster Visualization: A Study on Dimensionality Reduction   Aug' 2024 - Nov' 2024
- Explored **PCA**, **LDA**, and **ICA** to improve clustering performance and visualization using **K-Means** on high-dimensional datasets like Iris and Wine.
- Evaluated clustering efficacy using metrics such as silhouette score and **Adjusted Rand index**.
  Tech: Python, NumPy, Pandas, Matplotlib, Scikit-learn, Plotly and Colab

Stock Price Prediction Using LSTM: A Data-Driven Approach with Google Stock Data   Feb' 2024 - Apr' 2024
- Built a stock price prediction model using **LSTM**, **SVM**, and Linear Regression in TensorFlow, leveraging historical data for accurate forecasting.
- Preprocessed data, engineered features, and evaluated models using MAE and RMSE, with visualizations created in Plotly and Matplotlib.
  Tech: Tensorflow, LSTM, SVM, Python, Matplotlib, Pyplot.

CERTIFICATES

- Approximation Algorithms and Linear Programming   May' 2024
- ChatGPT Advanced Data Analysis   Apr' 2024
- Leadership Communication for Maximum Impact: Storytelling   Mar' 2023

ACHIEVEMENTS

- **First in EduRev Class LeaderBoard**   May' 2025
  Secured first place in the EduRev Initiative's class leaderboard for outstanding academic engagement and performance.

- **Stood Top 5 in Brain Busters**   Nov' 2024
  Participated and secured a top 5 position in the competitive event on NLP and AI concepts organised by Brain Busters and conducted by School of Computer Science and Engineering LPU.

- **Secured 10th rank in the Python Boot Camp**:   Sep' 2022
  Ranked 10th in the Boot Camp organized by XomaxEdu.

EDUCATION

- **Lovely Professional University**   Punjab, India
  *Bachelor of Technology - Computer Science and Engineering; **CGPA: 8.64***   *Since August 2022*