JESWIN THOMAS MATHEW

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EDUCATION

- **BTECH in Computer Science, Christ University, CGPA - 7.5** 2020 - 2024
  Relevant Coursework: Software Engineering, Artificial intelligence, Data structures and Algorithms, Design and Analysis of Algorithms, Statistics, Simulation and modeling, Computer Aided Decision Making .

SKILLS

Technical Skills: HTML, CSS, Python, SQL, Data Science, Machine Learning, Deep Learning, Data Analytics, Data Visualization, and Generative AI
Soft Skills: Leadership, Creativity, Planning, People management, Adaptability, Vision, Decisiveness

EXPERIENCE/INTERNSHIP

AI Engineer Jan 2025 - May 2025
Deep Learning Titans *Bengaluru, KA*

- Led the development of a **scalable**, **automated** data scraping system, integrating **web automation** and advanced methods to tackle anti-bot measures.
- **Fine-tuned FinBERT** for sentiment analysis, boosting accuracy from **47% to 85%**, later upgrading to gpt-4o model via OpenAI API integration.
- Engineered **data pipelines** to process, filter, and transform unstructured data into **actionable intelligence** through strategic **prompt engineering**.
- Conducted extensive **research and analysis** to optimize system performance and had continuous and effective **communications** with stakeholders.

Full Stack Developer May 2023 - June 2023
Torc Infotech *Kochi, KL*

- Designed an **E-commerce website** for the sale of IOT security systems and devices for customers in Canada.
- Used HTML, CSS, ReactJs, NodeJs

Python Developer May 2022 - June 2022
Camino Infotech *Kochi, KL*

- Built a program which can **detect Brain Hemorrhage** by processing CT scan images using **machine learning** models.
- Used Python, TensorFlow, Pandas, NumPy, Django

PROJECTS

1. Classification of epileptic seizures using machine learning models:

- Implemented **CNN, LSTM** and other **supervised machine learning** models such as Logistic Regression, SVM, KNN, Decision Trees etc.
- **Classified** epileptic seizures with **97%+ accuracy** using EEG data
- Visualized **comparative performance** of deep and supervised learning methods

2. Parkinson's Disease Prediction:

- Developed a **predictive system** using **SVM** to accurately predict the likelihood of having **Parkinson's disease** using Fundamental Frequency dataset
- Achieved diagnostic **accuracy of 95%+**

3. Netflix Content Strategy Analysis:

- Found **28.5% higher viewership** in December and June through targeted releases.
- Identified **47.3%** of total weekly releases occur on Fridays, driving peak **weekend engagement**.
- Found shows to generate **2x the viewership** of movies, maximizing audience reach.

4. Credit Card Fraud Detection:

- Developed credit card fraud detection system using Random Forest, Logistic Regression, and XGBoost, achieving an **accuracy of 98%** and recall for the minority class at **84%**.
- Implemented **SMOTE** to enhance class balance, resulting in a **20% increase** in minority class recall while maintaining an overall **F1 score of 0.85.**
- **Evaluated model performance** using various metrics, including precision, recall, and F1 score, ensuring a **robust assessment** of model effectiveness in real-world scenarios.

5. Music Recommendations System:

- Built a **Music Recommendation Engine** using content-based filtering to recommend songs based on genre, artist, and song popularity.
- **CountVectorizer** was used to transform music genres into numerical representations for effective analysis.
- Employed **cosine similarity** to measure song similarities, enhancing the accuracy of recommendations.

CERTIFICATIONS/TRAINING

- **IBM Data Science Professional Certificate**
- Databases and SQL for Data Science, IBM Coursera
- Data Analysis with Python, IBM Coursera
- Machine Learning with Python, IBM Coursera
- Generative AI Essentials for Data Science, IBM Coursera

LEADERSHIP/ACTIVITIES

- **Managed** and **mentored** a team of 4 engineering interns, delegating tasks, tracking progress, and ensuring high-performance execution.
- **Spearheaded** a team of 6 to build a **motion controlled shooting range simulation** for the University NCC as part of our **service learning project**.
- **Directed** a team of 4 to a relational database management system as part of our **coursework**.
- Assisted in a few freelance data science projects on freelancer.com