Noel Mathew Thomas

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EDUCATION

M.Sc. Artificial Intelligence and Machine Learning
Christ University

2023 – present
Bangalore

B.Sc. Economics and Analytics
Christ University

2020 – 2023
Pune

PROFESSIONAL EXPERIENCE

Nehru Arts and Science College
Research Intern

01/2023 – 04/2023
Coimbatore, Tamilnadu

- Authored two research papers on disease detection in tomato and sugarcane leaves using deep learning techniques, contributing to a government-funded project aimed at improving agricultural practices.
- Implemented CNN and other deep learning models to accurately identify diseases, enhancing crop protection efforts.

Xoriant Pvt. Ltd.
Data Sceince Intern

06/2022 – 08/2022
Pune, Maharashtra

- Developed and tested 5+ machine learning models on datasets exceeding 100,000 data points, achieving a 15% improvement in predictive accuracy.
- Utilized tools like Python, TensorFlow, and SQL to derive actionable insights, supporting strategic decision-making

Bank of India
Research Intern

06/2022 – 07/2022
Patna, Bihar

- Analyzed financial performance across major banking institutions during the COVID-19 pandemic.
- Uncovered critical trends that led to four actionable recommendations for improving asset liquidity and risk management strategies.

PROJECTS

Hand Gesture Recognition
Python, Computer Vision, Deep Learning

05/2024 – present

- Integrated ML to **identify hand gestures** and mapped them to **custom functions** and **gaming controls**, including custom mappings for audio and video control.

Retrieval-Augmented Generation of PDFs
NLP, TensorFlow, Llama, FAISS

02/2024 – 04/2024

- PDF Text Extraction and Querying App using Retrieval-Augmented Generation with **TinyLlama-1.1B-Chat, and FAISS Indexing**

Advanced Stock Market Prediction 🔗
Python, TensorFlow, Keras, ARIMA

11/2023 – 01/2024

- Developed an Advanced Stock Market Prediction System using **BRK-A stocks** by implementing **ARIMA** and **LSTM** models.

Plant Disease Detection
OpenCV, CNN, TensorFlow

01/2023 – 07/2023

- Integrated **CNN, ResNet50 & DenseNet121** to accurately identify and classify diseases in tomato leaves.

SKILLS

- Languages — Python, SQL, HTML/CSS, R, NoSQL
- Artificial Intelligence — Deep learning, Computer vision, Natural Language Processing
- Machine Learning — Python, R, Data Science, Model Development, Hyperparameter Tuning
- Large Language model — NLP, Lang Chain, NLU, NLG, Chatbot