

Arjun P Dinesh

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MSc student in Machine Learning and AI at Christ University, Bangalore, currently interning as an AI Engineer at DeepLogicAI. Previously interned at Gilbert Research Center. Skilled in Python, Large Language Models, Computer Vision, and AI and committed to leveraging these skills in practical AI projects.

PROFESSIONAL EXPERIENCE

- 2024/06 – present
Bangalore, India
- AI Engineer Intern, DeepLogic AI** 📄
- Developed an **AI-driven document pipeline** for efficient Extract, Transform, Load (ETL) processes, **enhancing data integration and workflow automation**.
 - Currently designing and implementing a **custom Large Language Model (LLM)** tailored for a specific application, aiming to optimize performance and functionality in targeted tasks.
- 2023/08 – 2023/11
Bangalore, India
- Machine Learning Intern, GILBERT RESEARCH CENTER**
- Worked on medical datasets, utilizing computer vision techniques to **analyze MRI, X-ray data, and other diagnostic images**. This involved **developing models that could identify and classify medical anomalies**, contributing to advanced diagnostic solutions.

TECHNICAL SKILLS

Languages (Python, SQL (Postgres), JavaScript, HTML/CSS, R, CPP), **Artificial Intelligence** (Deep learning, Computer vision, Natural Language Processing), **Machine Learning** (Python, R, Data science, Data Manipulation), **Large Language model** (NLP, Lang Chain, NLU, NLG, Chatbot), **Web Development** (HTML, CSS, JavaScript, PHP, Node.js), **Linux** (Bash Scripting, System administration, Security, Networking)

EDUCATION

- 2023 – present
Bangalore, India
- Master of Science in Artificial Intelligence and Machine Learning,**
Christ University, Bangalore 📄
- 2020 – 2023
Kollam, India
- Bachelor of Computer Application in Data Science, Amrita Vishwa Vidyapeetham** 📄

PROJECTS

- 2024/05 – 2024/07
- DocMaster, Python, GenAI, OCR, Streamlit, Gemini**
- Designed and implemented a comprehensive **document processing pipeline to handle and interpret documents** featuring both text and imagery.
 - Integrated OCR for text extraction from image-based PDF documents, **achieving high accuracy in text recognition**.
 - Developed and refined preprocessing functions to cleanse and tokenize text, **enhancing data quality for optimal Large Language Model (LLM) performance**.
- 2023/11 – 2024/01
- Advanced Stock Market Prediction, Python, TensorFlow, Keras, ARIMA**
- An advanced stock market prediction system for BRK-A stocks using Long Short-Term Memory (LSTM) networks, significantly **improving forecasting accuracy**.
 - Conducted a **comparative analysis between ARIMA and LSTM models**, achieving superior performance metrics with LSTM.
 - Implemented the LSTM model using Python and TensorFlow, focusing on **precise stock price forecasting**.
- 2022 – 2023
- Integration of TinyML in Edge Computing for Health Monitoring System,**
TinyML, Arduino, TensorFlow
- Engineered a predictive machine learning model that analyzes historical vital sign data to identify abnormal patterns, resulting in a **45% increase in early detection of health issues**.
 - Implemented the model on a low-power **ESP8266 device**, enabling **real-time classification** of normal versus abnormal health conditions.

CERTIFICATES

Code Innovation Series Workshop organized by GitHub 📄 – Completion date: January 20, 2022

IBM Data Privacy for Information Architecture 📄 – Completion date: May 16, 2023