INDRAJITH M P

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Internship

Moonpreneur   **Feb 2025 – Present**
Robotics Project Guide   *Remote*
- Working with Moonpreneur, a Silicon Valley-based ed-tech startup dedicated to nurturing innovation and entrepreneurial thinking among young learners worldwide.
- Delivering engaging, hands-on sessions in **Robotics, Data Science, and Artificial Intelligence**, with a focus on real-world applications and project-based learning.
- Designing and developing project-based learning modules that integrate **Python programming, sensor integration, and computer vision applications** for advanced robotics and AI projects.

Training

Allsoft Solutions   **June 2024 – July 2024**
AI Summer Trainee   *Ajitgarh, Punjab*
- Built an advanced Fake News Detection model using NLP, improving speed and accuracy across diverse datasets.
- Applied machine learning, deep learning, and computer vision in real-world projects.
- Created chatbots with IBM Watson and completed a chatbot development course to enhance AI communication skills.

Projects

Gesture Control System | *OpenCV, MediaPipe, PyQt6, Pygame, Hugging Face*   **September 2025**
- Engineered a **real-time gesture recognition system** enabling intuitive control of media, presentations, mouse navigation, and games through hand-tracking.
- Integrated an **AI-powered Air Canvas**, converting live user sketches into high-quality digital artwork using Hugging Face's Stable Diffusion models.
- Designed a modern **PyQt6-based GUI** for seamless mode switching, enriched with instructional visuals and robust process management for smooth user experience.

Stock Trading Bot with RL | *Python, Deep Q-Network, Alpha Vantage*   **October 2024**
- Developed an automated stock portfolio management system using Dueling Deep Q-Network, integrating technical indicators like MACD, RSI, and Moving Averages.
- Built a robust data preprocessing pipeline addressing missing values, outliers, and indicator standardization.
- Authored a research paper detailing the methodology and results of the system in stock trading.

ConxQuest - Gamified Learning Website | *MongoDB, Express, NodeJS, EJS, Passport*   **September 2024**
- Designed and implemented educational games to teach children about the Constitution, blending fun and informative content to promote active learning.
- Integrated a chatbot specialized in the Constitution, tuned for interactive learning.

Certifications

Build Your Own Chatbot | *IBM*   **June 2024**
Generative AI with Large Language Models | *DeepLearning.AI*   **March 2024**
Prompt Engineering for ChatGPT | *Vanderbilt University*   **February 2024**
Algorithms Specialization | *Stanford University*   **July 2023**

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, IntelliJ IDEA , Jupyter, Git
Technologies/Frameworks: Linux, GitHub, Firebase
Machine Learning & AI: TensorFlow, Keras, Scikit-learn, PyTorch, OpenCV, Deep Q-Networks, NLP, Matplotlib
Robotics: Sensor Integration, Microcontroller Programming, Hardware Prototyping

Education

Lovely Professional University   **2022 – Present**
Bachelor of Technology in Computer Science - 9.08   *Punjab, India*

Carmel HSS   **2020 – 2021**
12th Grade - 9.89   *Kerala, India*

Vijayagiri Public School   **2019 – 2020**
10th Grade - 9.50   *Kerala, India*