HARISH BALAJI B

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OBJECTIVE

Enthusiastic and dedicated AI undergraduate student with a passion for leveraging cutting-edge technologies to solve complex problems. Seeking internship opportunities to gain hands-on experience in the field of artificial intelligence and contribute to innovative projects.

EDUCATION

B. Tech. in Computer Science and Engineering (Artificial Intelligence)   2021 - 2025
Amrita Vishwa Vidyapeetham, Coimbatore

AISSCE   2019 - 2021
Maharishi Vidya Mandir, Coimbatore

CLUB EXPERIENCE

- Part of the **Intel IOT Club** for the year 2023-24
- Position of **AI/ML** member

TECHNICAL SKILLS

- **Languages:** Python, Java
- **Machine Learning and AI Frameworks:** TensorFlow, OpenCV, Scikit-Learn, PyTorch
- **Deep Learning:** Neural network architectures (CNNs, RNNs, etc)
- **Data Manipulation and Databases:** SQL, NoSQL
- **Problem Solving:** Algorithm design and analysis, Debugging and troubleshooting skills
- **LaTeX Typesetting**
- **HTML and CSS**

SOFT SKILLS

Communication Skills, Problem-Solving, Adaptability, Time Management, Teamwork and Collaboration, Critical Thinking, Creativity, Conflict Resolution

HACKATHONS AND QUIZZES

CODE BOT   27th April 2023 - 29th April 2023
Anokha   *Amrita Vishwa Vidyapeetham*

- Participated in the Hackathon which was part of the tech-fest Anokha.
- Did a chatbot based on OpenAI api, Steamlit and steamlit chat which focuses mainly on Energy Conservation.
- Got shortlisted to be on the hackathon website.
- CODEBOT
  Project Name: Renewable Energy

TALENT TITAN QUIZ

- Participated on a quiz conducted by School of Management Studies (SOMS), National Institute of Technology (NIT), Calicut

- Talent Titan Quiz, part of TARANG 2023

PROJECTS

- **Energy Chatbot**
  A chatbot based on OpenAI api, Steamlit and steamlit chat which focuses mainly on Energy Conservation.

- **Autonomous Parking System using TurtleBot3 Waffle**
  Autonomous Parking System developed using ROS2 Humble. The system utilizes ROS2 as the framework for communication and coordination between various components, enabling a robust and efficient solution for automated parking

- **Raspberry pi 3 Based Line Follower Robot**
  The Line Follower Robot using Raspberry Pi 3 and L298N motor is a project aimed at developing an autonomous robot capable of following a line on a track.

- **Automated Prediction of Item Difficulty and Item Response Time**
  Accurately predicting item difficulty and response time is crucial for developing effective and personalized educational assessments. We base this on the BEA 2024 Shared Task, leveraging its provided dataset to benchmark the performance of Word Embeddings with Neural Networks, CBOW, LSTM, LSTM with attention, GRU, BERT, ELECTRA.

- **Music Recommendation Using Q-Learning And Deep Reinforcement Learning**
  This project compares two methodologies for music recommendation: Q-learning and Deep Reinforcement Learning (Dueling DQN), applied to a dataset of music tracks with features like genre, artist, and danceability. The goal is to build a system that recommends music based on user preferences.

- **Human Pose estimation Using CNN and Keypoint R-CNN**
  This project focuses on human pose estimation using deep convolutional neural networks and key point R-CNN. The objective is to predict human key point coordinates from input images, enabling the visualization of human poses by drawing skeletons.

CERTIFICATIONS

- Infosys certification on **Introduction to Artificial Intelligence, Introduction to Natural Language Processing, Introduction to Deep Learning**

- DeepLearning.AI certification on **Neural Networks and Deep Learning.**

- **Energy Literacy Training** from **Energy Swaraj Foundation**.