NANDANA AJOY

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PROFILE

Dedicated and collaborative professional with a strong attention to detail and a passion for implementing academic expertise in a practical setting. Familiar with Python programming language and machine learning methods. Skilled in team management and adaptable to diverse environment. Eager to leverage technical and soft skills to drive impactful projects in a dynamic work environment.

EDUCATION

B.Tech in Computer Science Engineering-Artificial Intelligence   09/2021 - Present
- Amrita Vishwa Vidyapeetham, Amritapuri
- CGPA - 6.98

Higher Secondary School   05/2019 - 03/2021
- Carmel Girls Higher Secondary School, Trivandrum
- SCERT - 5A+

High School   05/2009 - 03/2019
- L'ecole Chempaka, Trivandrum
- ICSE - 83.4%

INTERNSHIP

Tata Elxsi   09/2023-10/2023

Technopark, Trivandrum
- Employed various sensors to detect tub displacement of a washing machine, aiding in determining load balance through vibration analysis.
- Integrated TMP100 sensor with Arduino for temperature sensing by employing I2C communication protocol and temp conversion techniques

PROJECTS

Parkinson Disease Detection   **(2024)**
- Developed a Parkinson's Disease detection system using deep learning, leveraging voice signal features such as jitter, shimmer, HNR, and RPDE for precise diagnosis.
- Integrated a feature extraction pipeline with Librosa, Parselmouth, and NOLDS to preprocess audio and predict outcomes with a trained neural network.

Position Estimation using Kalman Filter   **(2024)**
- Implemented a vehicle tracking system utilizing the Kalman filter algorithm to estimate and predict the position of vehicles in real-time.
- Integrated sensor fusion techniques to combine control and radar measurements.

Maze Runner Robot   **(2023)**
- Developed an intelligent and versatile autonomous robot, the Maze Runner Robot, proficient in navigating mazes with precision and agility utilizing ROS (Robot Operating System).

SOCIAL OUTREACH

Student Social Responsibility - SSR **(2023)**
- Published an 8-chapter e-Book "Wellness Journey-Preserving Elderly Heritage" based on information collectively gathered after visiting an elderly home as well as interviewing diverse age groups on holistic traditional wellness practices.

SKILLS

MATLAB	**Machine Learning**	**Reinforcement Learning**
Adaptability	**Project Management**	**Teamwork**

CERTIFICATES

- Introduction to Virtual Reality - Coursera (2024)
- Introduction to Deep Learning in Python - DataCamp (2024)
- Generative AI : The Evolution of Thoughtful Online Search - LinkedIn (2024)
- Introduction to LLMs in Python - DataCamp(2024)
- Petrichor - IIT Palakkad : Workshop on AI (2022)
- A1, A2 Certificates for efficiency in German Language

VOLUNTEERING

Vidyut **(2024)**
- Executive - Marketing Committee

Vidyut **(2023)**
- Volunteer - Publicity and Sponsorship Committee

AmritaSREE Self Help Group **(2022)**
- Volunteered for AmritaSREE, an organization within the college dedicated to providing essential support to the local community.

LANGUAGES

English
Full Professional Proficiency

Malayalam
Full Professional Proficiency

German
Elementary Proficiency

French
Beginner

Japanese
Beginner