Aditya Binoy.N

Artificial Intelligence Enthusiast and an Aspiring Scholar

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PROFILE

A motivated B.tech student specializing in Artificial Intelligence, passionate about advancing technology and its impact on society with a strong foundation in AI concepts, Machine Learning, and Data Science. Committed to contributing innovative solutions to real-world challenges through academic achievements and hands-on projects, dedicated to advancing the field of artificial intelligence.

EDUCATION

Sri Sairam Engineering College, Chennai
NOVEMBER 2020 – MAY 2024, B.Tech Artificial Intelligence And Data Science

Kendriya Vidyalaya, Aruvankadu (The Nilgiris)
APRIL 2018 - MARCH 2020, CBSE - Computer Science and Maths (PCM)

Holy Innocents High School, Wellington (The Nilgiris)
APRIL 2006 - MARCH 2018, ICSE

INTERNSHIP EXPERIENCE

Cordite Factory (Ministry Of Defence), Aruvankadu (The Nilgiris)
JULY 2022 - AUGUST 2022, Automation In Industry Project- Clarifier Automation

Adiroha Solutions OPC PVT, Bengaluru
JANUARY 2023 - FEBRUARY 2023, Full Stack Development Project- Website Replication

PAPERS PUBLISHED

"**A study on Navigation/tracking System Combining GPS and NFC Technologies**", International Journal of Computer Science Trends and Technology (IJCST) – Volume 10 Issue 3, May-Jun 2022

"**Underwater Communication System for AUV",** International Journal of Novel Research and Development(IJNRD)- Volume 9 Issue 4, April-2024

ACADEMIC PROJECT

Underwater Communication System for AUV
Supervisor: Mrs. Sangeetha V, Sri Sairam Engineering College, Chennai
Project- De-noising of Acoustic signal with AI Algorithms- *The objective was to increase the underwater unmanned aerial vehicle; drone's potential for underwater research and exploration by utilizing cutting-edge technology like computer vision and machine learning. I designed and implemented the machine learning algorithms, which allowed for underwater object detection and autonomous navigation with the help of convolutional neural networks (CNNs) trained to identify underwater characteristics and marine life from photos that the drone's cameras and sensors recorded. I was drawn to the task of training CNN architectures tailored to the unique characteristics of underwater images, including dealing with low-light conditions, varying water turbidity, and distortions caused by refraction. On the computer vision front, the project introduced me to advanced techniques for visual simultaneous localization and mapping (V-SLAM), which played a crucial role in enabling the drone to localize itself relative to underwater landmarks and to build a map of its environment in real-time.*

LEADERSHIP EXPERIENCE

Sri Sairam Engineering College- Ideathon2023

Academic Project Team Lead SDG 14 Contest - Team Lead

Delivered lectures in Workshop about Line Follower robot in-
 i) JNNCE, Shimoga, Karnataka
 ii) SCAD College of Engineering, Tirunelveli, Tamil Nadu
 iii) St. Mother Theresa Engineering College,Thoothukudi, Tamil Nadu

ADDITIONAL SKILLS

Coding Languages:
Python, Java, C, C++

Languages:
English, Hindi, Malayalam, Tamil

Microsoft Office:
Word, Excel and Powerpoint

Photography and Editing:
DSLR photography, Photo Editing and Video Editing

Sports:
Badminton, Table Tennis