

SIDDHARTH

Delhi, India

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Education

Cluster Innovation Center

B.E. in Information Technology & Mathematics

Delhi, India

Nov, 2022 - Present

- **Coursework:** Calculus, Discrete Mathematics, Algorithms, Operating System, Linear Algebra, Java, Statistics, Computer System Architecture, In-Silico Biology, Database Systems
- **Societies & Clubs:** Part of Programming & Robotics Societies

Indian Institute of Technology Madras

B.S. in Data Science

Online Degree Program

Sep, 2022 - Present

- **Coursework:** Computational Thinking, Mathematics for Machine Learning, Descriptive Statistics, Machine Learning Foundation, Machine Learning Techniques, Python, Business Data Management, Tools in Data Science, Machine Learning Practice, Business Analytics

Research Projects

Nano Drone Development (Current Work): -

- Engaged in development of nano-drones for autonomous movement
- Currently trying to develop nano-sized drones using off-shelf components
- Exploring and implementing navigation algorithms.

10-K Filing Analysis using LLM: -

- Engineered a platform that downloads the 10-K Filings of Company and presents important information about the company using Mixtral-7B Model.
- Implemented using OpenRouter API, Streamlit and Python.

Diagnosing Depression using Machine Learning Algorithms: -

- Implemented Pre-processing and ML algorithms to classify patients into depressed and not depressed based on BDC score.
- Used SelectKBest, mRmR, Bourta for pre-processing and KNN, XGBoost, Gradient Boosting, AdaBoost, Random Forest for classification.

LFR and Maze solving Bots: -

- Developed Line Following, Maze-Solving and Micromouse bots, which won in various competitions.
- Used Arduino, ESP-8266 and various different sensors for the development of the bots.

Professional Experience

FSIL, Georgia Tech

Volunteer Research Assistant

Remote

May 2024 - Aug 2024

- Working on various financial NLP projects, involving data collection, preprocessing, and model implementation.

CyPSi Lab, University of Delhi

Research Intern

Delhi

Feb, 2024 - June, 2024

- Working on different Hardware Projects and Research in Navigation Algorithms for development of autonomous navigation of micro drones.

IoT Ready

Technical Documentation Writer

Remote

Feb, 2023 - April 2023

- Researched and wrote white papers for multiple topics on the Internet of Things (IoT) products, providing clear and concise descriptions of their features, benefits, and use cases.

Technical Skills

Languages and Tools: C, Java, Python, R, Embedded C, Arduino IDE, Linux, Git, SQL and LaTeX

Certification & Courses : Cognitive Robotics, Machine Learning Specialization

Algorithmic Trading and Portfolio Management, Basic Electrical Circuits, Fundamentals of IoT