

Siddharth Sahay

Student

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[Linkedin Profile](#)

[Github Profile](#)

Education

BMS College of Engineering, Bengaluru

Bachelors of Engineering in Artificial Intelligence and Machine Learning

November 2022 - Present

Cumulative GPA - 9.30/10.0

Projects

Hole in the Wall Game (Using OpenCV)

Ongoing

- Working on a virtual version of the famous TV competition called “Hole in the Wall”.

Football Simulation (Using Reinforcement Learning)

Ongoing

- Working on developing a football simulation environment, we aim to implement different types of reinforcement learning algorithms (e.g., Q-learning, TD learning) to test the efficacy of these algorithms against a hypothesized result.

Farm to Table

January 2024 - Ongoing

- Under the guidance of professors Dr. Padmapriya V and Dr. Uma S
- Working on developing and implementing a LSTM and CNN model to reduce farmer’s reliance on middlemen and obtain fair pricing to maximize profits by providing tools for accurate crop health and quality monitoring.
- Conducted a case-study of Chitradurga (a district in Karnataka) to ensure precision and effectiveness of the models developed.

Stock Prediction Model (Using LSTM)

April 2024

Analyzed and predicted the stock market by training an LSTM model (a type of RNN model) on a continuous dataset of 22 years.

Team Working and Leadership

BMS College of Engineering

Class Representative

January 2024 - Present

- Responsible for communications and liaising between teachers and students.

Gradient - AIML Student Society, BMS College of Engineering

Technical Team Member

January 2024 - Present

- Member of the Core Event Organizing team for UTSAV, the national intercollegiate cultural fest.
- Responsible for organizing the annual Gradient week,

Football Simulation (Using Reinforcement Learning)

June 2024 - Present

Project Guide

- Responsible for project planning, team coordination and problem solving, communication.
- Designing the simulation environment, making and implementing learning algorithms.

Courses and Certifications

1. CS50’s Introduction to Computer Science,

Ongoing

Harvard, edX

2. [Machine Learning Specialization](#)

November 2023

DeepLearning.AI, Coursera, Stanford

- Supervised Machine Learning : Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning

3. [Computational Thinking for Problem Solving](#)

October 2022

University of Pennsylvania

Technical Skills

Languages - C/C++, Java, Python

Database - MySQL, MongoDB

Tools - Tensorflow, OpenCV, Pandas, Scikit-Learn, NumPy, Matplotlib