

Sameer Khanna

MNIT Jaipur: Third Year Undergraduate

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Objective

To acquire strong skills in Machine Learning, with the focus on integrating ML concepts into the field of Electronics for improving efficiency and innovative problem-solving.

Education

MNIT, Jaipur <i>B.Tech in ECE</i>	9.51/10 CGPA <i>Expected 2025</i>
Senior Secondary School Examination <i>CBSE</i>	95 Percentage <i>2021</i>
Higher Secondary School Examination <i>CBSE</i>	94.4 Percentage <i>2019</i>

Experience

Machine Learning Intern <i>NeuroNexus Innovations</i>	<i>November 2023 - Present</i> Github URL
<ul style="list-style-type: none">Aim is to build a Movie Genre Classification model which predicts the genre of a movie based on its plot summary.Implemented different machine learning classification models, including Logistic Regression, Naive Bayes, and Support Vector Machines (SVM) to classify movies based on their genres. Each model is trained and tested, and their accuracies are compared.Used the Genre Classification Dataset IMDb obtained from Kaggle.Result: Logistic Regression delivers the highest accuracy for the given dataset.	

Projects

Online Judge Website Vedio URL <i>MongoDB, Expressjs, Reactjs, Nodejs, MaterialUI</i>	<i>March 2023 - June 2023</i> Github URL
<ul style="list-style-type: none">Built an Online judge that remote runs code securely and judges if the given code is correct/ wrong / inefficient.Implemented using MERN stack, created interactive and responsive UI using Reactjs and MaterialUI.Added support for the languages C++ and Python which can be further expanded to other languages such as Java, C, Golang and others.User can search and find problems from a problem-list page and then solve and submit the problem solution using integrated code editor.<i>Currently working to containerize the compiler by exploring Docker and sand-boxing techniques to add layers to security.</i>	
Digitalization of Analog Gauges , Dr. Kuldeep Singh, MNIT, Jaipur <i>Team Size: 4</i>	<i>July 2023 - October 2023</i> Role: Team Member
<ul style="list-style-type: none">Aim is to mitigate the manual and time-consuming visual inspection of analog gauges in old oil and gas refineries that is prone to errors and inefficiencies.To build an automated system using Computer vision and Machine learning that reads analog gauge values, transmit their data, and provides remote access of data to the user.Built a website using Python and Flask that will store the digital data obtained from the gauge and display it on the screen.	

- Worked on an **object detection model** which can analyze the gauge readings by observing the location and inclination of the pointer.

Crypto Tracker Website

January 2023 - March 2023

MaterialUI, Reactjs, Chartjs, CoinGecko API

Website URL

- Built a responsive Crypto currency rate tracker website which shows current as well as previous data including different live graphs.
- Implemented frontend using **MaterialUI and Reactjs**, used **Chartjs** to represent the data for individual crypto in graphical format.
- Used **CoinGecko API** to fetch data related to over 50+ cryptocurrency.

Technical skills

Programming Languages/Tools	C, C++, Python, Javascript
Frontend	HTML, CSS, Reactjs, MaterialUI, Chartjs
Web Frameworks	Nodejs, Expressjs
Databases	MongoDB
Dev Tools	Git, Github
Software Tools	MATLAB, LT Spice, Virtuoso Cadence
Concepts	Data Structures and Algorithms, Operating Systems, Machine Learning Models (Linear and Logistic regression)

Workshops

- Machine Learning and Artificial Intelligence by IBM (during Cognizance 2023).
- Workshop On Basics of C++ by Computer Science Club, MNIT Jaipur.

Positions of Responsibility

Microsoft Learn Student Ambassador

MLSA Community

Recently joined MLSA community to attend and organise various events to contribute to the community.

Member of Frontend Team

Website URL

Dean - Student Welfare website

Helped in fixing bugs and added 5+ elements in Frontend using Reactjs.

Member of Debating Society

MNIT Jaipur

Organised over 7 debating competitions, while being a lead in 3 of them.

Scholastic Achievements

- Solved over *500 Algorithmic problems* on multiple platforms.
- Ranked in **top 50/300+ participants** in Coderush Coding Challenge 2023.
- Ranked in the top **0.58% in India** in Joint Entrance Examination, 2021.