

Aditya Sahani

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Education

Indian Institute of Technology, Jodhpur

Bachelor of Technology in Computer Science and Engineering (CGPA : 9.26 / 10)

Expected 2026

Jodhpur, Rajasthan

Lucknow Public Schools and Colleges, Lucknow

Class 12 - Maths and Science (Percentage : 99.5 %)

Completed 2022

Lucknow, Uttar Pradesh

Experience

Nexus Info

Machine Learning Intern

Jan 2024 – Feb 2024

Coimbatore, Tamil Nadu

- During my internship at Nexus Info, I focused on studying and implementing a **Deep Learning Based ChatBot to handle College Admission Related Queries**. The project revolved around **implementation of LSTM** based model to predict responses, for college-related queries.

Projects

Covid Detection Using Chest X-Ray | *CNN, HOG, LBP, Computer Vision, Tensorflow* | **GITHUB**

- Implemented a robust deep learning framework for COVID-19 detection from chest X-ray images, integrating HoG, LBP, and CNN techniques. Achieved an outstanding accuracy rate of 90.56%, underscoring the effectiveness of the approach in medical image analysis and deep learning applications.

Wikipedia Toxic Comment Classification | *NLP, SVM, LR* | **GITHUB**

- Developed a text classification project using NLTK, SVM, LR, and Random Forest algorithms to categorize toxic comments from the Wikipedia dataset into six different classes. Achieved an impressive F1-score of 0.9459, highlighting successful implementation of machine learning techniques for text analysis.

Healthcare Anamoly Detection | *AutoEncoders, Tensorflow, IsolationForest, LOF* | **GITHUB**

- Developed a healthcare anomaly detection project utilizing Autoencoder, Isolation Forest, and Local Outlier Factor techniques to detect fraud in the healthcare sector. Achieved impressive results on the dataset, showcasing effective application of anomaly detection methods in healthcare data analysis.

Music Genre Classification | *CNN, ANN, Tensorflow, Librosa* | **GITHUB**

- Developed an innovative music genre classification project utilizing state-of-the-art techniques including Artificial Neural Networks (ANN) and Convolutional Neural Networks (CNN). Carefully preprocessed audio data to extract relevant features and mel spectrograms, resulting in highly accurate classification of music sound into ten distinct genres.

QuillNotes - A Notebook WebApp | *ReactJS, NodeJS, ExpressJS, MongoDB* | **GITHUB**

- Developed a full-stack web application enabling users to sign in securely with authentication and perform CRUD operations on their daily notes. Implemented with Node.js, Express.js, and MongoDB for backend functionality, while leveraging React.js and Bootstrap to create an impressive frontend interface.

Technical Skills

Languages: Python, C++, JavaScript, JAVA

Technologies: Tensorflow, Keras, Pytorch, OpenCV, Numpy, Pandas, Scikit-Learn, Seaborn

WebD: HTML/CSS, Flask, ReactJS, NodeJS

Utilities: Git, Github, VS Code, LaTeX, Docker, Linux

Relevant Courses

Completed: Data Structures and Algorithms, Probability Statistics and Stochastic Processes, Linear Algebra and Calculus, Introduction to Computer Science, Maths for Computing, Quantum Computing, Signal and Systems

Ongoing: Pattern Recognition and Machine Learning, Software Engineering, Digital Design

Achievements

JEE Examination, 2022

- 99.7 percentile in JEE MAINS 2022 among 1 million+ candidates.
- 5775 Rank in JEE ADVANCED 2022 among 1 million+ candidates.

Intermediate Board Examination, 2022

- AIR 2 in ISC Board all over India.
- Awarded with scholarship from the UP Government.

Course Achievements, IIT Jodhpur

- Achieved A grade in Data Structures and Algorithms under Dr. Gaurav Harit, Head of Department, CSE.
- Achieved A grade in Probability Statistics and Stochastic Processes under Dr. Vivek Vijay, Associate Professor, Mathematics.

Extracurricular

Entrepreneurship Cell, Assitant Head

Served as Assistant Head at the E-Cell of IIT Jodhpur, spearheading initiatives to foster an entrepreneurial culture within the college community. Led the team in organizing and executing various events.

Prometeo IIT Jodhpur, Assistant Head

Led the team in organizing and executing various technical events during our technical fest, Prometeo.

Career Development Cell, Support Team Member

Career Development Cell member at IIT Jodhpur, overseeing student internships, placements, and maintaining the official website. Dedicated to facilitating student career advancement.