

# Harshit Goyal

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## Education

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**Manipal University Jaipur**

*BTech. in Artificial Intelligence and Machine Learning*

*2023-2027*

## Projects

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### Life-Quest

- Tech stack : HTML , CSS , JS , Node.js , Express.js , Github , Google Firebase
- Developed a website where one can upload there resume and a questionnaire will be given to the candidate and will answer the question as per knowledge.
- Added user Authentication(login/Signup) for being able to access it using Google Firebase.
- Created interactive, responsive and user-friendly webpage

### Personalized Hotel Browsing Platform (In progress)

- This Project is created on local system , It's a Full Stack web application based on MERN development.
- The idea is to list hotels on the website so that it can be easily accessible to different part of the world.
- Frontend : HTML , CSS, Javascript
- Backend : Node.js , Express.js
- Database : MongoDB
- Framework : Bootstrap

### Decoding Our Earth - Hyperspectral Imaging

- Object detection using hyperspectral images, With the goal to classify or detect objects using hyperspectral data
- Implemented a deep learning model that analyzes hyperspectral images to accurately classify different crop types by identifying unique spectral signatures of various crops.
- The model will provide precise crop maps, enabling farmers to monitor crop distribution and health across large areas.
- Achieved increase in high classification Training accuracy by 78.43 %.
- Applied data preprocessing techniques such as dimensionality reduction (PCA) and spectral-spatial feature extraction to improve model performance.
- Deployed and evaluated models in Python using TensorFlow and Google Colab.

## Technologies

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**Languages:** HTML, CSS, JavaScript, Java, C, C++, Python, NoSQL

**Frameworks** Bootstrap , Tailwind CSS , Express.js

**Libraries** NumPy, Pandas, Matplotlib

**Developer Tools** Git, Github , Vscode , IntelliJ Idea , Google Firebase

## Achievements and Certifications

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- **Data Structures and Algorithms** — Codechef *Nov 2024*
- **Swayam NPTEL Qualified** — Design and Analysis of Algorithm *April 2025*
- **HackerRank Certificate** — Problem Solving *June 2025*