

# Nitin Sharma

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## Education

### Engineering College Ajmer

Bachelors in Computer Science (B.Tech) - iii year

Changed Branch from ECE → CSE (in ii year)

## Relevant Coursework

- Machine Learning
- Datascience
- DBMS
- Computer Architecture
- Operating System
- Data Structures & algorithms
- Networking

## Projects

- Web Browser using python from scratch:** *Python, Tkinter, Socket* June, 2024
  - Developed a Web Browser that shows the text view of the website
  - Takes the website through the console
  - Capable to parse the HTML and CSS for text view of the website
- Students Database Management System with GUI:** *Python, Tkinter, SQLite* August, 2024
  - A GUI software for managing the database of students including, their names, result, course details etc.
  - Stores these in SQLite database
  - Work both on Windows and Unix systems
- Movie Recommendation System:** *Python, SK-learn, HTML, CSS, Flask* July, 2024
  - A movie recommendation system that can suggest the user their top N preferred movies, based on either users genre or item (*movie*) similarity
  - Uses cosine similarity for finding the similarities
  - Provide web interface, flask used for backend
- Industrial EdgellOT dataset Attack and its type analysis:** Nov, 2024  
*SK-learn, IMBlearn, Matplotlib, PCA*
  - A data-science and ml project that analyses the industrial IOT based attacks
  - Applied various ML algorithms, found Random Forest with highest classification accuracy,
  - Gained accuracy of KNN algorithm - 85%
  - Worked on renowned [EdgellOT dataset by IEEE](#)
- CART Algorithm from Scratch**

## Internships

### Diginique Techlabs

Machine learning and Data-science intern

June 2024

### Toshniwal Industries Pvt. Ltd.

Electronics and Automation intern

June 2023

## Technical Skills

- Languages:** Python, Java, Kotlin, C++, SQL, Shell script, HTML/CSS, Assembly(intel x86-64bit & intel 8085),
- Dev Tools:** VS Code, Android Studio, IntelliJIdea, WSL, AWS Console
- Technologies and Frameworks:** Spacy, Linux, Github, Markdown, JUnit & Espresso