

YOGESH JANGIR

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EDUCATION

IIT JODHPUR

B.TECH IN COMPUTER SCIENCE & ENGINEERING

2021–2025* | Jodhpur, India
CGPA: 6.80/10 (till 6th Sem)

GOENKYA PUBLIC SCHOOL

RBSE BOARD | RAJASTHAN, INDIA
Class XII: 89.60% | May 2020

RBSE BOARD | RAJASTHAN, INDIA
Class X: 94.83% | May 2018

SKILLS

PROGRAMMING

PROFICIENT

C/C++

Python

HTML

CSS

JavaScript

React

FAMILIAR

Bash

LaTeX

Bootstrap

Kotlin

SQL

Linux

MACHINE LEARNING

Numpy

Pandas

CUDA

Pytorch

Tensorflow

ChatGPT

Jupyter Notebook

MISCELLANEOUS

Tableau

Excel

Github

Sklearn

opencv

Json

COURSEWORK

UNDERGRADUATE

- Data Structures and Algorithms
- Database Management System
- Operating System
- Software Engineering
- Computer Network
- Cyber Security
- Cryptography
- Computer Vision
- Pattern Recognition and ML
- Probability, Statistics and Stochastic Process

PROJECTS

OCR: HANDWRITTEN TEXT RECOGNIZATION | CV PROJECT 🔄

📅 Jan 2024 - May 2024 | Supervisor: Dr. Pratik Mazumder

- Developed an **Optical Character Recognition (OCR)** system for handwritten text using a **Multilayer Perceptron (MLP)** model.
- **HOG** and **PCA** were used for feature extraction and dimensionality reduction.
- Able to **detect** handwritten text with good accuracy using **machine learning** and **Neural Network** model.
- Tech Stack: **PyTorch**, **Machine Learning**, **Python**, **Github**, **Matplotlib**, **Seaborn**, **Sklearn**, **Jupyter Notebook**

LIBRARY MANAGEMENT SYSTEM | DATABASE PROJECT 🔄

📅 Aug 2023 - Nov 2023 | Supervisor: Dr. Suchetana Chakraborty

- Designed and implemented **SQL** database schema to efficiently store and manage library resources, user information, and borrowing records.
- Created **backend user authentication**, book search, and borrowing/returning functions, user-friendly **web interface** for system interaction.
- Tech Stack: **Python**, **PHP**, **Database**, **SQL**, **Jupyter Notebook**

BRAIN STROKE PREDICTION | MACHINE LEARNING PROJECT 🔄

📅 Jan 2023 - May 2023 | Supervisor: Dr. Richa Singh

- Developed a machine learning pipeline for brain stroke prediction using classifiers like **RandomForest**, **Decision Tree**, **XGB**, and a **Neural Network**.
- Implemented data transformations including **oversampling using SMOTE**, **PCA**, **LDA**, and **t-SNE** to optimize model performance.
- Developed a web application using **Flask** and **HTML/CSS** to predict stroke based on user health inputs.
- Tech Stack: **Python**, **Sklearn**, **Tensorflow-Keras**, **CSS**

PROJECT PORTAL | WEB CHAT APPLICATION PROJECT 🔄

📅 Jan 2023 - May 2023 | Supervisor: Dr. Kshitij Gajjar

- Developed using the **React** framework to ensure a responsive and user-friendly interface, enabling **real-time data synchronization**.
- The integrated **chat room** facilitates real-time communication among professors and students using **WebSocket technology**.
- Tech Stack: **JavaScript**, **HTML**, **CSS**, **Firebase**, **Figma**, **WebSocket**

COUNTRY CATEGORIZATION | MACHINE LEARNING PROJECT 🔄

📅 Jan 2023 - May 2023 | Supervisor: Dr. Richa Singh

- Created ML pipeline for country data analysis, employing preprocessing techniques like **scaling** and **dimensionality reduction (PCA, t-SNE)**.
- Implemented **Hierarchical**, **K-Means**, and **Fuzzy K-Means** clustering algorithms to classify countries.

ACHIEVEMENTS

- **Cleared one of the toughest exams in India: JEE Advanced** with an **All India Rank of 6759** and a **Category Rank of 1182**.

EXTRACURRICULAR

- **Participated** in various **technical and cultural** events like in college fests.
- Enthusiastic about playing **cricket**, **volleyball**, and **online games**, fostering teamwork and strategic thinking.