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

2020 **Cleared** one of the **toughest Exam** of **India**, **JEE Advanced** with **All India Rank 6759** and Category Rank - **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.