

Final Year | Computer Science & Engineering | IIT Jodhpur Portfolio | bhut.1@iitj.ac.in | +91 9426278580

# **FDUCATION**

### **IIT JODHPUR**

**ENGINEERING** 

2021-2025 | Jodhpur, India CGPA: 7.28/10 (till 6th Sem)

# VIDYADHISH VIDYASANKUL

CLASS 12TH, GUJARAT BOARD

March 2021 | Bhavnagar, India Marks: 462 / 500

Percentage: 92.4%

# SAINT MARY'S HIGH SCHOOL CLASS 10TH, GUJARAT BOARD

March 2019 | Bhavnagar, India

Marks: 554 / 600 Percentage: 92.33%

# LINKS

Github:// Ayush0802 LinkedIn://ayushbhut LeetCode://ayush8208

# COURSEWORK

#### UNDERGRADUATE

Data Structure And Algorithms Design And Analysis of Algorithms Software Engineering Database Management System Operaring System Pattern Recognition And Machine Learning Computer Vision Cryptography Cyber Security

# **SKILLS**

### **PROGRAMMING**

- C C++ Python
- HTML CSS Javascript
- React ExpressJS NodeJS
- MongoDB MySQL

### **MACHINE LEARNING**

- Scikit-Learn Scipy Numpy
- Pandas PyTorch NLP

#### **OTHER SKILLS**

- Problem Solving
- Arduino Coding Familiar with:
- Android Studio

# **EXPERIENCE**

### FEDERATED LEARNING FOR HISTOPATHOLOGY IMAGES

B.TECH. IN COMPUTER SCIENCE & Undergraduate Student Research | Dr. Angshuman Paul Sep 2023 - Feb 2023 | Python, Pytorch, Scikit-Learn, Grad-CAM

- Worked on Federated learning techniques which allows a model to be trained across multiple decentralized devices or servers holding local data samples, without exchanging them and maintaining privacy.
- Our proposed algorithm enhances the accuracy of the medical image analysis and also beats the results of the existing algorithms in federated learning such as FedAvg, FedOpt and FedProx.

# PRO JECTS

# AI-POWERED SCHEDULE ASSISTANT | SOFTWARE DEVELOPMENT September 2024 | React, NodeJS, ExpressJS, MongoDB, Llama3.2, Python

- Developed a web application using the MERN stack, integrating LLAMA to generate personalized timetable schedules based on user preferences and tasks.
- The platform features user authentication (sign-in/sign-up), task and preference addition, dynamic timetable display, chatbot integration, and a scheduling assistant that allows users to modify their schedules using natural language prompts.

### SHOWROOM ACCOUNTING WEBSITE | SOFTWARE DEVELOPMENT June 2024 | React, NodeJS, ExpressJS, MongoDB

- Developed an accounting website for a showroom with features like customer portfolio creation and display, customer and dealer payment tracking, expense management, and monthly profit analysis.
- Created Price List section with easy product and its sub-products price search.
- Implemented all CRUD operations and search functionalities wherver required.

### PANORAMIC PHOTO STITCHING | COMPUTER VISION

March 2024 - April 2024 | OpenCV, Python, Numpy

- Developed a panoramic photo stitching technique which can be used to stitch and blend multiple images together to generate a panorama of the images.
- Implemented algorithms for image alignment, feature detection, blending, etc to seamlessly merge multiple photographs into a single panoramic image.

### MOVIE RECOMMENDATION SYSTEM | ML PROJECT

March 2023 - April 2023 | Python, Numpy, Pandas, Scikit-Learn, NLP

- Created 3 different ML models to recommend movies. 1st model was made on the basis of genre and tags of the movies, 2nd on the basis of KNN clustering and 3rd on the basis of Collaborative Filtering (User Similarity).
- Used Kaggle dataset of Movies with their genre, rating, tags and views to train my Machine Learning Model.

# **OTHERS**

- Solved 500+ Problems on LeetCode
- Appointed as Assistant Head Event Management Team (2023) of IIT Jodhpur's Annual Cultural Fest IGNUS.
- In JEE ADVANCED 2021 I Qualified in Top 1% among 1 million JEE aspirants.
- I also stood 1st in school in IMO (International Maths Olympiad) in Std 10th.