

SHUBH GOYAL

Indian Institute of Technology Jodhpur (India)

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EXPERIENCE

LARGE LANGUAGE MODELS POST-PROCESSING MODULE / FRONTEND AND ML RESEARCHER IBM GRM 2023 (May 2023-)

- Developed pipeline for bias/toxicity detection in outputs of large language models. Integrated GPT-2, BERT and other language models for testing.
- Developed user-friendly UI (ReactJS) and backend (Django Rest Framework) for detector integration.
- Currently working on mitigation of outputs.

Techstack: React JS, Pytorch, Scikit-learn

KEY PROJECTS

LITERATURE SOCIETY IITJ WEBSITE / FRONTEND Course Project (Software Engineering) [Website Link](#) | [GitHub Link](#)

A website developed for managing various activities for literature society of IIT Jodhpur. The website contains the following features:

1. User Profile Management (with in site notification service)
2. Library Management System
3. Feature to upload written works to be displayed on website (Reader's Section).
4. Moderator and Admin access profiles to approve books and contents.
5. Event Management for various clubs

Techstack: React JS, Django

CLOUDPHYSICIAN'S VITAL EXTRACTION CHALLENGE / COMPUTER VISION INTER IIT TECH MEET 11.0 ([Project Link](#))

- Extracted ICU monitor vitals from images using object detection techniques.
- Transformed identified regions through text recognition to retrieve vital values.
- Worked on graph digitisation of ECG strip.

Techstack: OpenCV, Pytorch, Scikit-learn

ACHIEVEMENTS

- Inter-IIT TechMeet 11.0 - Ranked 10th among teams from 23 IITs in Cloudphysician's Vital Extraction Challenge
- Youth Conclave 2022- Among top 6 finalists (Hackathon) across India
- WeldRight (TechFest IIT Bombay)- 4th position among 70+ teams from across India
- IOQA & IOQP 2021- Cleared Stage 1
- PRMO 2020- Got qualified for RMO 2020

EDUCATION

Bachelor of Technology (Computer Science and Engineering) IIT Jodhpur 2021-2025

CGPA- 7.97/10 (At the end of second year)

High School Diploma CBSE (PCM and CS) St. Paul Higher Secondary School Indore 2008-2021

Class 10th- 93.8%

Class 12th- 96.2%

COURSEWORK COMPLETED

- Software Engineering
- Human-Machine Interaction
- Data Structures and Algorithms
- Maths for Computing

ONGOING

- Database Systems
- Operating Systems
- Design and Analysis of Algorithms

SKILLS

PROGRAMMING

- Python
- C/C++
- JavaScript

WEB DEVELOPMENT

- ReactJS
- HTML, CSS

FAMILIAR

- Three.JS
- Bootstrap

OTHERS

- Git/GitHub
- Tensorflow/Pytorch/sklearn
- OpenCV

POSITION OF RESPONSIBILITIES

- Coordinator, AI Society, IIT Jodhpur (Aug 2023-Present)
- Assistant Head (Corporate, Start-up Relations and Marketing), E-Cell, IIT Jodhpur (July 2022- Mar 2023)
- Assistant Head (Event Management), Aaftaab- Literary Fest IITJ (Aug 2022- Oct 2022)