

SOHAM PARIKH B.Tech CSE, IIT Jodhpur

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Jodhpur, Rajasthan

n sohamp321

Soham Parikh

SUMMARY

specialized proficiency in web/app а development and comprehensive design expertise, coupled with a robust foundation in both ML and DL, I am poised to make a meaningful contribution to the Development team. My in-depth research experience in Machine Learning further equips me to significantly enhance research initiatives and advance organizational objectives. I am enthusiastic about leveraging my multifaceted skills and expertise to drive innovation and excellence within the Development team.

SKILLS

•Python •C++ •Move(Familiar) •JS(Familiar) Languages:

Development-

·Flutter ·Firebase ·Dart App:

•HTML •CSS •TS & JS(Familiar) •Bootstrap Web:

·React (Familiar)

Technologies: · PyTorch (Familiar) · MongoDB · MySQL

• Git and Tools • Linux • Google Collab · Jupyter Notebooks · Android Studio · Canva

· Figma · LaTeX

EDUCATION

Indian Institute of Technology, Jodhpur 12/2021 - Present

CGPA: 7.67 (till 5th Sem)

B.Tech in Computer Science and Engineering

7/2020 - 7/2021 **Puna International School** 81%

Class XII

3/2018 - 3/2019 Shree Swaminarayan International School

Class X

95.6%

SDE PROJECTS

· Aptos Move

TypeScript

React

OnChainRadio

- · Under the mentorship of Dr.Debashish Das spearheaded the development of a decentralized music streaming platform, for InterIIT Tech Meet 12.0.
- Engineered backend infrastructure for secure music storage, user authentication, permissionless uploads by artist and community-driven governance, and also implemented user-friendly features for liking songs, creating playlists, etc.
- · Collaborated with frontend developers to create a visually appealing and user-friendly interface for seamless navigation and engagement.

MinkBench (C) aithub link

- Python
- Shell
- Tkinter
- · Under the mentorship of Dr.Palash Das designed and developed a Linux application for accessing computer performance.
- · Designed and integrated real-time monitoring of computer system statistics and benchmark functionalities allowing users to assess and analyze the system's performance in an attractive and user-friendly

PHC Management System

ngithub link

- EJS
- MongoDB
- · Under the mentorship of Dr. Suchetna Chakraborty designed and developed a comprehensive campuswide medical system enabling students to access medical history, and review billing history effortlessly.
- Streamlined healthcare processes by providing doctors, nurses, and receptionists and pharmacists with efficient tools for adding diagnoses and billings and ensuring seamless patient management, all within a user-friendly interface.

S-Mart App n github link

- Flutter
- Firebase
- Dart
- Under the mentorship of Dr. Kshitij Gajjar designed and developed a Supermarket Delivery App, catering to the needs of a local supermarket.
- Implemented user-friendly features that enable customers to effortlessly place orders from the supermarket for convenient delivery to their preferred location.
- HTML · CSS

JS

Tic-Tac-Toe WebApp

n github link

Designed and developed a fun Tic Tac Toe game using HTML, CSS and JS which allowed users to simultaneously play with each other.

ML PROJECTS

Information Fusion of CT Images

- Python
- PyTorch
- DL CNN, VAE Under the guidance of Dr.Angshuman Paul conducted information fusion on CT Images from the DeepLesion dataset provided by NIH.
 - Developed a comprehensive approach to integrate multiple modalities and extract meaningful features from the CT Images by utilizing various techniques such as CNN, SSL, VAE and 3DCE to fuse the available data
 - · Variational Autoencoders (VAEs) played a crucial role in generating recreated images with a remarkably low Mean Squared Error (MSE) of less than 0.01.

· Utilized various NLP tools and methodologies including BoW, TF-IDF, Word2Vec, and BERT for feature

Twitter Hate Speech Detection

n github link

- MI
- · NLP
- Python
- extraction and classification.
- · Implemented advanced techniques to address the class imbalance issue
- · Achieved an impressive accuracy of 96.5, with an F1 score of 0.65 for the minority class.

Credit Card Fraud Detection

O aithub link

 Classification Models SMOTE

Python

- · Employed various ML concepts such as PCA and sampling to create a robust credit card fraud detection system.
- · Performed experimental analysis using models such as Random Forest and XGBoost etc. to better understand their workings on skewed dataset.
- · Utilized sampling techniques such as SMOTE to handle the highly imbalanced nature of the data and ensure accurate detection of fraudulent transactions.
- Achieved an impressive AUPRC of 0.86, indicating the effectiveness of the implemented solution.

POSITIONS OF RESPONSIBILITY

8/2022-7/2023 Student Guide Student Wellbeing Committee, IIT Jodhpur

Mentored 10 freshers about the campus and guided them.

8/2022-7/2023 Assistant Head, Media and Publicity

Created attractive and informative posters etc.

8/2022-7/2023 Assistant Head, Design and Creativity Aaftab '22, IIT Jodhpur

Entrepreneurship Cell, IIT Jodhpur

Created attractive and informative posters etc. for the literary fest of IIT Jodhpur

ACHIEVEMENTS

- · Achieved A- Grade in Pattern Recognition and Machine Learning course under Dr. Richa Singh.
- · Achieved A- Grade in Database Management Systems course under **Dr. Suchetna Chakraborty**.
- · Achieved A- Grade in Operating Systems course under Dr. Palash Das.
- · Achieved A- Grade in Computer Architecture course under Dr. Dip Sankar Benerjee.
- · Stood 1st in 12-hr Web Development Hackathon in Prometeo'23, IITJ (The techno entrepreneurical fest of IITJ).
- · pupil Max 1230 rating on Codeforces.
- 2* Coder Max 1446 rating on CodeChef.

EXTRA- CURRICULAR ACTIVITIES

Contingent Member

Inter IIT TechMeet 12.0

Member of the MidPrep PS by Aptos

Tech Volunteer Prometeo'22, IITJ

Volunteered various tech-related activities

Junior Executive E-Cell IITJ

Worked in the design team

LANGUAGES