Shashwat Roy

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EDUCATION

IIT JODHPUR
BTech. in Computer Science
Dec 2021 - Present | Jodhpur,India
Cum. GPA : 8.13/10 (till Sem V)

PACE JR. SC. COLLEGE
Class 11-12
May 2021 | Mumbai,India
Percentage: 96.17 %

LILAVATIBAI PODAR HIGH SCHOOL
Class 5-10
May 2019| Mumbai, India
Percentage: 97.4 %

LINKS

Github: **TesseractTerrorizer03**
Kaggle: **Shashwat Roy (B21CS071)**
Codeforces: **roy.16**

SKILLS

PROGRAMMING
•C++ • Python

WEB DEVELOPMENT
• Javascript • HTML • React JS
• Firebase

MACHINE LEARNING
•Numpy • Pandas • Matplotlib
• Scikit-Learn • Tensorflow
• Llama* • Keras • Pytorch

COURSEWORK

•Pattern Recognition and Machine Learning (A)
•Design and Analysis of Algorithms (A)
•Database Management Systems (A)
•Data Structures and Algorithms
•Software Engineering (A)
•Operating Systems (A-)
•Probability,Statistics and Stochastic Processes (A-)

ACHIEVEMENTS

2021: **AIR 2362** JEE Advanced
2021: **AIR 10181** JEE Mains
2021: **Top 20 rank** BTech. in IIT Jodhpur
2021: Qualified for BITS Pilani B.E. Electronics & Instrumentation

ABOUT ME

I am currently in 3rd year at IIT Jodhpur pursuing BTech. in Computer Science and Engineering. I have experience in Machine Learning and Software Development. As a keen learner, I am open to working on live projects that are based on real world applications of modern software and technology.

EXPERIENCE

INTERN AT HOONARTEK
Developing a Business Glossary Model

- Performed exploratory model analysis on the dataset presented after pre-processing and transformation.
- Worked with Falcon 7b instruct model.
- Worked with NGram and Language models.

PROJECTS

ML Project on Unsupervised Learning

- Link: Project File in Google Colab
- Analyzed the clustering techniques and their performances on different data transformations.
- Subsequently choose the most optimal model to make appropriate clusters for the data points (countries).

Stroke Prediction using Supervised Learning

- Link: Project File in Google Colab
- Analyzing the dataset to perform preprocessing.
- Made use of ML models like MLP and XGBoost and observed the model performances using various performance metrics.

Quantum Convolutional Networks

- Link: Project File in Google Colab
- Implemented a a hybrid QCNN model in PyTorch using a combination of classical and quantum layers using Qiskit.
- Observed performances with different Parametrized Quantum Circuits.
- Evaluated model performances on MNIST dataset.

BOOK INVENTORY SYSTEM
A Website to monitor the state of the store inventory

- Was involved in both frontend and backend part of the project.
- Used ReactJS,Node, Express and PostgreSQL.

DISCUSSION FORUM
A Website for posting and answering doubts

- Link: Software Requirement Specification
- Was involved in both the frontend and the backend part of the project.
- Made use of ReactJS, Firebase and HTML.
- Link: Project Files