Abu Shahid

Pre-Final (B.Tech)
CSE @ IIT Jodhpur

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Links

Github: **ceyxasm**
LinkedIn: **ceyxasm**

Education

2020-2024
B.TECH. IN CSE
@ IIT Jodhpur
8.72 CPGA till 4th sem

2017-2019
INTERMEDIATE
City Montessori School, Lucknow
Percentage: 98.5% CISCE

2005-2017
HIGH SCHOOL
St. Thomas College, Lucknow
Percentage: 96% CISCE

Skills

OS
GNU/Linux, Windows

LANGUAGES
C++, Java, Python, Javascript

FRAMEWORK
React.js Node.js Express.js

DATABASES
MySQL, PostgreSQL, MangoDB

OTHERS
Markdown, Git, GitHub,
LATEX rt, VSCode,
Tensorflow, DaVinci Resolve

Coursework

Data Structures and Algorithms
Signals and Systems
Quantum Information Processing
Probability, Stats, Stochastic Processes
Pattern Recognition and ML
Calculus I & II
Maths for Computing
Digital Design
Software Engineering

Experience and Projects

ISRO- Automatic Identification of Solar Bursts   **2022 Feb- 2022 March**
Statistical learning model and a web-based application was created to detect and categorize X-ray bursts using open-source technologies.
Link.: ISRO_XSM_Analyser

Python, Astropy, Numpy, Flask

Microsoft- Cyber Security Engage Mentee   **2022 May- 2022 June**
Learned first hand from Security and Compliance professionals and grasped industry level security practises. Finally proposed a Cyber Deterrence Architecture for critical infrastructures of India.
Link.: Deterrence of Cyber Attack on Indian Oil

Python, C++

PRML- Histopathologic Cancer Detection   **2022 Jan- 2022 May**
Exploratory data analysis was performed and various machine learning models were trained and a web-based application was created to detect whether tumor is benign or malignant in nature.
Link.: Histopathologic Cancer Detector
Link: Report

Python, CNN, PCA, Streamlit

QML- Undergraduate Research in Quantum ML   **2021 Aug- 2021 Dec**
Research project under Prof. V. Narayanan @IIT Jodhpur. Variational Quantum-Classical Algorithms were implemented and their possible use case in Machine Learning was explored.
Link.: Project Paper
Link.: Quantum Computing Implementations

python, pyTorch, qiskit, IBMq, QASM Simulator

BrainChild   **2021 Feb- 2021 April**
A web-application for automatic face detection using public APIs.
Link.: Brain_Child   *React.js, Node.js, PostgreSQL, Clarifai API*

Coursework Implementations
PSSP- The project was made as a part of exploration of subject matter learned during Probability, Stats and Stochastic Processes course.
Link.: PSSP   *python, numpy, jupyter notebook*

Signal and Systems- The project was made as a part of exploration of subject matter learned during Signals and Systems Course. De-noising and de-blurring techniques were explored under this.
Link.: Signal System   *Python, Signal Processing*

Certifications

NVIDIA DLI Fundamentals of Deep Learning
NVIDIA DLI Transformer based NLP Applications

Extra Curricular

> **Student Mentor** @Student Well-being Committee, IIT Jodhpur
> **Core member @LitSoc** , Literature Society IIT Jodhpur
> **Core member @Nexus** , Science Society IIT Jodhpur
> **AIR 2797,** JEE Advanced 2020