

# 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  
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 (Inter-IIT TechMeet)-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. Achieved 95% accuracy for all categories except A-class flare.

Link.: ISRO\_XSM\_Analyser [Github repo]

*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. Proposed a Cyber Deterrence Architecture for critical infrastructures of India.

Link.: Deterrence of Cyber Attack on Indian Oil [Report]

*Python, C++*

### BrainChild - Face Detection Web Application

2021 Feb- 2021 April

Includes sign-up and login functionality. Detects face and puts a bounding box on the image, which can be uploaded using URL. Demographic model of Clarifai API was used for the detections.

Link.: Brain\_Child [App] *React.js, Node.js, PostgreSQL, Clarifai API*

### 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 [App]

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 [Github Repo]

*python, pyTorch, qiskit, IBMq, QASM Simulator*

### 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 [Github repo]

*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 [Github repo]

*Python, Signal Processing*

## Extra Curricular

- > **Student Mentor** @Student Well-being Committee, IIT Jodhpur
- > **Core member** @LitSoc , Literature Society IIT Jodhpur
- > **Core member** @Nexus , Science Society IIT Jodhpur
- > **Qualified Internal Hackathon for SIH 2022**