



# Shashank Chauhan

Roll No.:B21AI010

B.Tech

Artificial Intelligence and Data Science

Indian Institute Of Technology, Jodhpur

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Github | Website

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute Of Technology, Jodhpur	5.26	2021-Present
Senior Secondary	GSEB Board(State Board)	71.38%	2020
Secondary	GSEB Board(State Board)	85.86%	2018

## PROJECTS

- Fruit & Vegetables Recognition** Apr 2023 - May 2023  
*Recognize fruits and vegetables by images (using device or camera) using different ML-DL models* Github  
– **Tools & technologies used:** Python, tensorflow, sklearn, numpy, keras, kaggle, ML and DL
- 3rd Person Enemies Shooting Game** Aug 2023 - Aug 2023  
*Going from the entry point to the ending point in between encounters enemies attack you.* Game  
– **Tools & technologies used:** Unreal Engine 5.2.1
- E-Commerce Website** Dec 2024 - Dec 2024  
*Creating E-Commerce website using React JS as front-end part* Website  
– **Tools & Technologies used:** HTML, CSS, JavaScript, React JS, Web Designing
- 3rd Person Target Shooting Game** May 2024 - May 2024  
*For clear the level by shooting several targets and get point in restricted time.* Game  
– **Tools & technologies used:** Unreal Engine 5.2
- Face Mask Detection** Dec 2024 - Dec 2024  
*Detecting the person wear mask or not using CNN model.* GitHub  
– **Tools & technologies used:** Python, Numpy, Pandas, Matplotlib, Sklearn

## RESEARCH PAPER

- Exact and Parameterized Algorithms for Window Minimization in Bipartite Arrangement** Jul. '24 - Nov. '24  
Paper  
Developed two exact exponential algorithms for 2-layer Window Width Minimization in bipartite graphs.  
Designed a fixed-parameter tractable algorithm with significant runtime and space improvements.  
Highlighted key differences from the Bandwidth Minimization problem.

## KEY COURSES TAKEN

– Data Structure and Algorithms, Deep Learning, Pattern Recognition and Machine Learning, ML Ops, Artificial Intelligence, Design and Analysis of Algorithms, Intro. to Financial Engineering, Optimization for ML, Data Engineering, PCS 1 and 2.

## TECHNICAL SKILLS

- **Programming:** C/C++, Python, HTML, CSS, JavaScript
- **Tools & OS:** Github, Jupyter Notebook, Google Colab, Windows
- **Libraries/Frameworks:** Pandas, Numpy, Tensorflow, Sklearn, Keras, Pytorch, Matplotlib.
- **Game Development Skill:** Unreal Engine 5
- **Web Development Skill:** HTML, CSS, JavaScript, React

## POSITIONS OF RESPONSIBILITY

- **Member** of Board of Academic Interaction, IIT Jodhpur Dec. 2021 - Present
- **Class Representative** of B21 Artificial Intelligence and Data Science, IIT Jodhpur Dec. 2021 - Present
- **Head** of the Aaftaab Fest PR and Marketing Team, IIT Jodhpur Jan. 2024 - Feb. 2024
- **Assistant Head** of the Prometeo(Tech Fest) fest PR Team, IIT Jodhpur Nov. 2022 - Jan. 2023

## ACHIEVEMENTS

- **Secured 3rd Position** Kabbadi Compition of Varchas 2024, IIT Jodhpur 2024