



Nitish Bhardwaj

Pre-Final year B.Tech. Student
in Artificial Intelligence and Data Science
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Github
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PERSONAL STATEMENT

As a motivated student, I'm passionate about Artificial Intelligence, especially in the field of machine learning and computer vision, aiming to gain expertise and contribute to impactful projects.

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B. Tech.	Indian Institute of Technology Jodhpur	8.31	2021-2025
Senior Secondary	CBSE Board	95.8%	2021
Secondary	ICSE Board	98.2%	2019

PROJECTS

- **MensWear Classification** Aug. 2023
CourseWork Project, Guide: Dr. Pratik Mazumder, Assistant Professor, IIT Jodhpur Github
 - Designed a CNN for Mens Clothing classification and created dataset with **411 self captured images**.
 - Employed **transfer learning** on CNN trained on regular images, and achieved **30% increase in accuracy** on partially masked images.
 - **Deployed** the model using Flask, enabling users for clothing classification
 - **Tools / Technologies** : Python, PyTorch, OpenCV, Flask.
- **NCVPRIPG Writer Verification** May. 2023 - Jul. 2023
Self-paced Project Github
 - Engineered a **Siamese Network architecture with KNN classifier** for writer verification in order to **authenticate handwritten documents**.
 - Attained a **20% boost in AUC** compared to pre-trained models while training on real-life handwritten Hindi dataset.
 - **Deployed** the model using the **Flask**, allowing users to verify handwritten documents.
 - **Tools / Technologies** : PyTorch, Scikit-learn, OpenCV, Flask.
- **Network Intrusion Detection** April 2023
Exploratory Project, Guide: Dr. Ravi Yadav, Assistant Professor, IIT Jodhpur Github
 - Utilized the **CICIDS2017 dataset**, comprising network features like IP addresses, ports, packets, payload data, and protocols.
 - **Built a model** which could **detect trojans** by examining network behavior and statistical changes in network traffic, achieving an **accuracy of 99.2%** on this dataset
 - **Tools / Technologies** : TensorFlow, Scikit-learn, Numpy, Pandas, Matplotlib.
- **Virtual Application Deployer** March 2023
CourseWork Project, Guide: Dr. Lawqueen Kanesh, Assistant Professor, IIT Jodhpur Github
 - Developed a **web application** on a **virtual machine**, ensuring seamless access from both another VM and the host application
 - Implemented **CRUD functionality** for secure data manipulation in a **MySQL database**, offering a user-friendly interface
 - **Tools / Technologies** : HTML, PHP, MySQL, Virtual Box.

TECHNICAL SKILLS

- **Programming**: Python, C++, HTML, CSS, MySQL, MongoDB
- **Tools/Frameworks**: Pytorch, TensorFlow, Flask, ML Libraries
- **OS/Others**: Windows, Ubuntu, Latex, Github

KEY COURSES TAKEN

Pattern Recognition and Machine Learning, Principles of Computer Systems, Data Structures and Algorithms, Introduction to Computer Science, Linear Algebra, Probability, Maths for Computing, Signals and Systems

ACHIEVEMENTS

- **NCVPRIPG**: Ranked among the top 10 competitors in the competition.
- **Branch Changer**: Only top 3% academic performers gets the chance for branch change at the end of first year.
- **MTA**: Introduction to Programming Using Python - Microsoft Certified 2022.
- **City topper**: Secured 2nd rank in the Kanpur City in Class 10th ICSE Board Examinations
- **Epoch Olympiad Scholar**: Started giving Olympiad from Class 6 to 10. Achieved 2 gold, 2 silver, 3 bronze medals.