



Aman Tripathi

Bachelor of Technology
in Electrical Engineering
Indian Institute of Technology, Jodhpur

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GitHub
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EDUCATION

- **Indian Institute of Technology, Jodhpur** Dec.21 - Present
Btech in Electrical Engineering
- **Army Public School, Varanasi** July.18 - May.20
Secondary Education—Percentage: 91.2/100
- **Army Public School, Varanasi** July.16 - May.18
Higher Education—Percentage: 84.6/100

PROJECTS

- **Latent Space Transformation** Aug 2022 - Apr 2023
Btech Project
 - * Extracted genral feature space of particular class. Analysing the part of feature space contibution to valuable features of that class. Transformed that contibuting feature to correspoing feature of another class.
 - * Used Image processing, feature extraction, transformation function development, Python, Problem Solving
- **COVID Detection using X-ray Images** Mar 2023 - Apr 2023
Course Project **Github**
 - * Developed a machine learning-based model to classify COVID-19 cases from chest X-ray images, contributing to the global effort in combating the Coronavirus Disease 2019 (COVID-19) pandemic.
 - * Implemented Principal Component Analysis (PCA) for data visualization, allowing for effective exploration of the X-ray image dataset, Utilized state-of-the-art machine learning algorithms to train the model on a large dataset of chest X-ray images. Achieved high accuracy (0.95) in classifying COVID-19 cases, demonstrating the effectiveness of the developed model
 - * Skills Utilized: PCA, XgBoost, SVMs, Random Forest, MLP
- **Country Categorization for Aid Allocation using Data Analysis** Mar 2023 - Mar 2023
Course Project **Github**
 - * This project involved analyzing and visualizing a dataset of country data using Python. The dataset was obtained from Kaggle and contained information on various economic and social indicators for different countries.
 - * This task involves: Data cleaning and preprocessing, Exploratory data analysis, Visualization of the data, Application of dimensionality reduction technique, Application of clustering technique, Visualization of the clustered data
 - * Conclusion: Using this data we have distributed countries into four groups on the basis of type of help they need.

LINKS

- * [Github](#)
- * [Linkdin](#)
- * [Leetcode](#)
- * [Codeforces](#)

TECHNICAL SKILLS

- **Programming Languages:** C++, Python, HTML, CSS, Verilog
- **Tools and Frameworks:** Jupyter, Visual Studio, Git & GitHub, OOPs
- **Database:** MySQL

KEY COURSES

- Data Structures and Algorithms (Proficiency)
- Intro to Computer Science
- Pattern Recognition in Machine Learning
- Mathematics I & II
- Intro to Electrical Engineering
- Signals and Systems
- Probability, Statistics and Stochastic process
- Foundations of Quantum Information

POSITIONS OF RESPONSIBILITY

- **Volunteer**, Varchas'22, IIT Jodhpur
- **Public Relation Team**, Youth Conclave'22, IIT Jodhpur