Rohan Dubey

M.Sc. Mathematics and B.E. Electrical and Electronics Engineering, Class of 2023

- Mar 26, 2000
- A-1, SIHM Jodhpur, Jodhpur, Rajasthan
- +91 9133011177
- https://rohandubey.github.io/
- @ f20180939@hyderabad.bits-pilani.ac.in

Technical Skills ———

- C++
- Python
- MATLAB
- JAVA

Speaking Skills ———

- English
- Hindi- Native Proficiency

Frameworks ———

- GCP(Deployment and Mitigation)
- OpenCV, Flask, Git and CUDA
- Tensorflow and Pytorch
- LLVM and Clang

Profiles ———

- rohandubey.github.io
- github.com/rohandubey
- www.linkedin.com/in/rohandubey
- orcid.org/0000-0001-8774-3621

Interests ———

Graphic Designing
Badminton
Video Games

Education

2018 – 2023	**BITS Pilani Hyderabad Campus**	M.Sc. Mathematics & B.E. EEE., CGPA 7.29
2017 – 2018	**Christ Church Boys' Senior Secondary School, Jabalpur**	CBSE, 91.4%
2016 – 2017	**Christ Church Boys' Senior Secondary School, Jabalpur**	CBSE, 10 CGPA

Courses

C Programming | Compilers | Linear Algebra | Probability and statistics | Optimization and Operation Research | Non-Linear Optimization | Data Structures and Algorithms | Numerical Analysis | Digital Design | Machine Learning | Graphs and Networks | Discrete Mathematics | Neural Networks and Fuzzy Logic | Control Systems

Work Experience

Amazon, Bangalore	**Applied Scientist Intern**	June, 22 – Present
	Bias mitigation for equitable learning. To develop a methodology to mitigate the bias of model performance across different clusters of NLU Model.	
APHRDI, Bapatla	**Data Analytics Intern**	May, 20 – Jul, 20
	Qualitative and Quantitative Research on COVID-19 in India. Predicted and analysed(qualitative and quantitative) the COVID-19 Data using time series analysis.	
IIT-BHU, Varanasi	**Summer Research Intern**	May, 19 – Jul, 19
	Simulation of weighted Cost-Sharing Network Game in Multi-cast Routing Networks. Planned out the network paths for a hypothetical city using Modified Nash Equilibrium and Graph and Network Theory for a better network routing.	

Projects

Face Mask Detector- Computer Vision	An AI solution with built in GUI based on the YOLOv5 model and OpenCV to detect those who are wearing masks or not.This program can run on multiple camera sources and store images without a mask for future identification. Link: www.github.com/rohandubey/Face-Mask-Detector
Pulse Rate Monitoring System	A program that detects the pulse rate of an individual without physical touch through the webcam using Signal and Image processing techniques. Link: www.github.com/rohandubey/Pulse-rate-monitoring-system
Homography- Object detection	Implemented an extremely fast Object detection technique using algorithms like SIFT, FLANN and K-Nearest Neighbour without the use of any ML model. Link: www.github.com/rohandubey/Homography-Object_detection

Publications

2022	**Maintaining the frequency of AI-based power system model using Twin Delayed DDPG(TD3) implementation** *R. Dubey, R.Loka, A. M. Parimi* March 2022, 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), doi: 10.1109/PARC52418.2022.9726615.

Certifications

2020	**30 Days of Google Cloud**	Google
	Deployment and Mitigation of Google Cloud Infrastructure along with integration of Machine Learning APIs, BigData and BigQuery.	