Utkarsh Mathur

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Coding Languages

- **Python**
- **Matlab**
- C++
- PERL

Coding Skills

- **Machine Learning**
- **Deep Learning**
- **Computer Vision**
- Natural Language Processing
- Object Oriented Programming
- Data Structures and Algorithms

Other Skills

- Football
- Music (Singing, Guitar)
- Photography
- Astronomy
- Public Speaking
- Event Management

Summary

I'm a Data Scientist with experience in Neural Networks and Deep Learning, Programming with Python, C++, JAVA, and Perl, and content writing. I aim to do Masters in Data Science and go on to make some valuable contributions in the field of Computer Vision and Deep Learning.

Experience

Research Intern - 06/2019 to 07/2019
Department of Polymer Science and Engineering, IIT Roorkee
Completed a project under Dr. Gaurav Manik, Associate Professor, Department of Polymer and Packaging, IIT Roorkee. In doing so I had to script an extended library for the Forcite module of Material Studio. The library helped in calculating the contact angle and motion of a liquid droplet on an inclined surface coated with super-hydrophobic polymers.

Projects

Facial Expression Recognition | Group Project

In collaboration with my friend Mohit Sharma, I did a comparitive study of various Machine Learning and Computer Vision models over the FER2013 dataset. Mohit worked on classical Machine Learning models while I worked on Deep Learning Models to build a Facial Expression Recognizer.

CIFAR – 10 | Personal Project

Built three models to solve the CIFAR-10 dataset, using the concepts of Neural Networks, Convolutional Neural Networks, and Residual Neural Network. By this comparative study I observed that by using the concept of residual networks or skip connections, accuracy of a Computer Vision Model can be enhanced.

Digit Recognizer | Personal Project
Built a Digit Recognizer which was trained on the MNSIT dataset launched in 1988, and it was able to achieve an accuracy of 99.09%.

Education

Bachelor of Technology – Polymer Science and Engineering – 2022
Indian Institute of Technology Roorkee (IIT Roorkee)

Courses & Certificates

- Data Structures and Algorithms in Java (NPTEL)
- IEE-03 Artificial Neural Networks (IIT Roorkee)
- Deep Learning Specialization (Coursera)
- Machine Learning A-Z (Udemy)
- Data Science Using Python (EICT IIT Roorkee)