UTKARSH MATHUR (Data Scientist)

FORMAL EDUCATION

YEAR	DEGREE / BOARD	INSTITUTE / BOARD	Score
2022	B.Tech. Polymer Science and	Indian Institute of Technology, Roorkee	6.1/10
	Engineering		
2018	Twelfth	Central Board of Secondary Education (CBSE)	87.6%
2016	Tenth	Central Board of Secondary Education (CBSE)	9.6/10

ACADEMIC & PROFESSIONAL COURSES

Academic Courses:

Data Structures and Algorithms in Java (*NPTEL*) | IEE-03 Artififcial Neural Networks | PEN-103 Computer Programming and Numerical Methods | CHN-323 Computer Application in Chemical Engineering

Professional Courses:

Deep Learning Specialisation – *Coursera* | Machine Learning A-Z – *Udemy* | Deep Learning A -Z – *Udemy* | Artificial Intelligence Nanodegree – *Udacity (Ongoing)* | Sports Analytics Using Python – *Mad About Sports* | Data Science using Python - *EICT IIT Roorkee* | Quick Review of Python - *Udemy*

SKILLS

- Object Oriented Programming (OOP), Data Structures and Algorithms (DSA), Machine Learning (ML), Artificial Neural Network (ANN), Deep Learning (DL), Computer Vision (CV), Natural Language Processing (NLP), Big Data
- Python, C++, Java, Perl, SQL, MATLAB, PowerBI, Tableau
- NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, SciPy, TensorFlow, Keras, PyTorch, PySpark, OpenCV,
 PIL (Python Imaging Library), OpenCV, Git, Material Studio

EXPERIENCE

1. Data Science Intern - ImagoAI	April 2021 – May 2021
2. Research Intern - IIT ROORKEE	September 2020 - Present
3. Research Intern - IIT ROORKEE	June 2019 – July 2019

PROJECTS

Breast Cancer Classification - Course Project (IEE 03 Artificial Neural Networks)

The main objective is to compare these three models - Support Vector Machine (SVM), Neural Network (with Particle Swarm Optimizer), and Neural Network (with Gradient Descent) over Breast Cancer Classification. The conclusion was Support Vector Machine (SVM) models perform a better classification task than Neural Networks models when the number of training examples is small (in our case only 512).

Facial Expression Recognition - Group Project

Collaborated with a colleague over a comparative study of various Machine Learning and Computer Vision models over the FER2013 dataset. I worked on Deep Learning Models to build a Facial Expression Recognizer while my colleague worked over conventional Machine Learning model. The results were a maximum accuracy of 68% from Computer Vision and 65% from Machine Learning Model.

DATASETS PRACTICED

Melbourne Housing Snapshot (Kaggle) | CIFAR-10 | MNSIT - Handwritten digits | Titanic (Kaggle)

POSITIONS OF RESPONSIBILITIES & EXTRA-CURRICULARS

•	Manager - TEDx IITROORKEE	September 2019 - Present
•	Company Coordinator - Training and Placement Office (TPO), IIT Roorkee	January 2020 – August 2020
•	Volunteer - Prahari Kaksh, NSS (3 UK CTR), IIT Roorkee	September 2018 - Present

SOFT SKILLS

Time management | Self-management | Team Player | Situational awareness | Leadership qualities | Adaptability | Critical thinking | Criticism-tolerance | Clear communication

| Website: https://007mathur.github.io/ | Email: umathur@ch.iitr.ac.in | Github: https://github.com/007mathur |