

Umesh Kumar

Adm. No. 23MT0430 6306522847

23mt0430@iitism.ac.in

linkedin.com/in/umesh-kr-maurya

github.com/ukmaurya



Education

IIT ISM Dhanbad

Master of Technology in Computer Science – CGPA: 8.97/10.00

Expected May 2025

Dhanbad, Jharkhand

Rajkiya Engineering College

Bachelor of Technology in Computer Science – CGPA: 8.62 / 10.00

May 2022

Robertsganj, UP

Experience

National Informatics Centre (Govt. Of India)

District Informatics Officer

June 2024 – July 2024

Sonbhadra, UP

- Upgraded approximately 90% of systems with e-office software to streamline digital workflow.
- Played a key role in removing Sonbhadra district from defaulter list.

Achievements

- Selected for post STA-A – NIC (Government Of India.)
- GFG Weekly Contest-118, rank 75 – Geeks For Geeks
- 2x GATE qualified – IIT Kanpur (Rank-1349) , IIT Kharagpur (Rank-2075)
- 600+ questions at GFG and 400+ questions on LeetCode+CodeForces
- 5* rating in problem solving and C++ on HackerRank

Projects

Implementation and Defense Against Adversarial Attacks in Image Classification Model

- Implemented Fast Gradient Sign Method (FGSM) to perform adversarial attacks on image classification models, reducing the original model's accuracy to 0.38.
- Improved model robustness by integrating adversarial training, achieving 0.81 accuracy in predicting adversarial examples within a mixture of modified and unmodified images.

AlgoVisualizer

- Algorithm visualizer is a react base web app where we can visualize and play with algorithm like Bubble Sort, Quick Sort, DFS, Dijkstra along with their Time Complexities.

Duplicate Question Pairs – Quora Question Pairs

- An NLP project to determine whether two questions are semantically similar. Involved Tf-Idf feature extraction for combined question pairs and transforming test data into the same vector space.
- Trained various models to evaluate performance, achieving a worst-case log loss of 0.8877.

Technical Skills

Languages: C/C++, JavaScript, SQL

Technologies & Tools : Node.js, Express.js

Computer Fundamentals: Data Structure and Algorithms, DBMS, Operating System, Computer Network, OOPs

Non-Technical Skills: Leadership, Team Work, Responsible, Content Writing

Positions Of Responsibility

Teaching Assistantship : Indian Institute Of Technology, Dhanbad

Core Member : UMEED-REC, Rajkiya Engineering College, Sonbhadra