UTKARSH MATHUR

(425) 633-5220 | utkarsh.mathur@gmail.com | www.linkedin.com/in/utkarshmathur1024 | GitHub - datamathur

EDUCATION

MS: Engineering Science: Data Science, University at Buffalo, SUNY, January 2023 - May 2024

- **Relevant Coursework**: Probability Theory, Statistical Learning and Data Mining, Numerical Mathematics, Programming and Databases (Python)

B.Tech: Polymer Science and Engineering, Indian Institute of Technology, Roorkee, July 2018 - May 2022

- **Relevant Coursework**: Design & Analysis of Algorithms, Artificial Neural Networks, Computer Programming, Mathematics (Calculus, Linear Algebra, Statistics, Numerical Methods & Analysis)
- **Capstone Project**: Production of Sustainable Aviation Fuel (Mentor - Dr. PK Jha)

EXPERIENCE

Data Scientist, Quinbay, Bengaluru: May 2022 - October 2022

- Developed data-centric services for BliBli, one of leading Indonesian e-commerce websites, on products involving Deep Learning Computer Vision and Natural Language Processing (NLP) applications.
- **Skills**: Python, SQL, Data Science, Deep Learning, Git, Data Pipelines, Computer Vision, Natural Language Processing (NLP), Project Documentation.

Machine Learning Intern, Hono, Remote: July 2021 - April 2022

- Built Predictive Analysis models for 8 products pertaining to predictive analytics in HR sector, by deploying automated ML models.
- **Skills**: Python, Machine Learning, Data Analysis, Data Preprocessing, Project Documentation

Data Science Intern, Imago AI, Remote: April 2021 - May 2021

- Built ML models pertaining to agriculture-centric Hyperspectral images for 4 key services.
- **Skills**: Python, Machine Learning, Data Preprocessing, Git, Problem Solving

PROJECT

Autonomous Driving Project (Research): Python

- Working with a team of Graduate students under Dr. Jinjun Xiong on Autonomous Driving for LiDAR images.

Feature Selection with GWO (Research): Python

- Research on feature selection optimization using meta-heuristic optimization techniques with Dr. Kusum Deep (Professor at Department of Mathematics, IIT Roorkee) and Ms. Preeti (PhD student).

Semantic Segmentations of Ocular Images (Research): Python, Matlab

- Experimented on Deep Learning algorithms for semantic segmentation over tumor-infected ocular images of rats to estimate tumor growth and trends under Dr. Mayank Goswami (Assistant Professor, Department of Physics, IIT Roorkee).

Breast Cancer Classification (Course): Python

- Developed and analyzed performance SVM, Neural Networks (Backpropagation), and Neural Networks (Particle Swarm Optimization) trained on Breast Cancer Classification data for Course Project of IEE-03 Artificial Neural Networks (IIT Roorkee).

Motion of Liquid Droplet on Inclined Super-hydrophobic Surfaces: Perl

- Deployed library extension for Material Studio (Forcite module) to calculate the contact angle and motion of a liquid droplet on an inclined surface coated with super-hydrophobic polymers using PERL scripts for Dr. Gaurav Manik (Associate Professor, Department of Polymer Science, IIT Roorkee).

TECHNICAL SKILLS

- **Programming Languages**: Python | C++ | SQL | Perl | Java | R | Matlab
- **Technical Knowledge**: Object-Oriented Programming | Data Structures & Algorithms | Data Science | Machine Learning | Deep Learning | Database Management Systems | Computer Vision | Natural Language Processing