

Mohammad Tufail Sheikh

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Introduction

I am pursuing a Ph.D. at [MedImg Lab](#) [🔗](#), Centre For Biomedical Engineering, IIT-Delhi, under the supervision of [Prof. Anup Singh](#) [🔗](#). My research interests include the Application of AI in Neuro-Imaging, specifically, Post-operative Treatment Planning and Response Assessment in Brain Tumors.

Education

Indian Institute of Technology, Delhi July 2023 – Present

Ph.D. in Medical Imaging

- GPA: 10/10
- **Coursework:** Image Processing, Data Analysis in Medical Data, Computational Physiology, etc.
- **Thesis Title:** Analysis of Neuroimaging Data of Glioblastoma for Treatment Planning And Response Assessment

National Institute of Technology, Srinagar July 2021 – June 2023

M.Tech in Communication and Information Technology

- GPA: 9.3/10
- **Coursework:** Machine Learning, Quantum Computing, Wireless Communication, etc.
- **Major project:** Analysis of Brain Tumors using Multimodal MRI to predict MGMT promoter status.

National Institute of Technology, Srinagar July 2014 – June 2018

B.Tech in Electronics and Communication

- GPA: 8/10
- **Major project:** Colour based Object Follower

Publications

Large blood vessel segmentation in quantitative DCE-MRI of brain tumors: Jan 2025

A Swin UNETR approach

Anshika Kesari, Satyajit Maurya, *Mohammad Tufail Sheikh*, Rakesh Kumar Gupta, Anup Singh - Magnetic Resonance Imaging, Elsevier.

[10.1016/j.j.mri.2025.110342](https://doi.org/10.1016/j.j.mri.2025.110342) [🔗](#)

DeepDepth: Prediction of O(6)-methylguanine-DNA methyltransferase geno- April 2024

type in glioblastoma patients using multimodal representation learning based on deep feature fusion

B. Keerthiveena, *Mohammad Tufail Sheikh*, Hariprasad Kodamana, Anurag S. Rathore - Neural Computing and Applications, Springer.

[10.1007/s00521-024-09757-0](https://doi.org/10.1007/s00521-024-09757-0) [🔗](#)

Experience

Research Intern, Medical Imaging New Delhi, India

Prof. Anurag Rathore, IIT-Delhi

Jan 2024 – Jun 2024

- Worked on Analysis of Brain Tumors using Multimodal MRI for predicting the MGMT promoter status.
- Published a Journal Paper.

Project Coordinator J&K, India

Rhic Innovation LLP

July 2018 – March 2021

- Implemented various image-based projects like an Obstacle avoidance robot, etc.

Research Intern

Prof. Madhava Krishna, Robotics Research Centre, IIIT-Hyderabad

Hyderabad, India

July 2017 – Sep 2017

- Worked on the problem of Image-Based Visual Servoing.

Projects

Cobbs Angle Measurement App

[Github](#) 

- Developed a software-based application to measure Cobb's angle in scoliosis patients.
- Tools Used: Python, OpenCV

Analysis of Brain Tumors using Multimodal MRI for predicting the MGMT promoter status

2023

- Tools Used: Python, PyTorch

Optical Character Recognition of Nautical Charts

2022

- Developed a custom processing pipeline that includes object detection, followed by a recognition algorithm
- Tools Used: Python, TensorFlow

Colour-based Object Follower

2018

- Real-time Object Follower based on the colour of the object.
- Tools Used: Raspberry Pi, Arduino, OpenCV, C Language

Skills

Courses: Image Processing, Medical Imaging, Machine Learning, Deep Learning, Data Analysis

Languages: Python, Matlab

Libraries: PyTorch, MONAI, Tensorflow, PyQt5