# GAURAV H MANMODE

*Mathematics and Scientific Computing*
*National Institute of Technology, Warangal*

+91 9370265813 📞
ph23mac2r08@student.nitw.ac.in ✉
gauravmanmode.github.io ⭘
linkedin.com/in/gauravmanmode 🔗

## ACADEMIC QUALIFICATIONS

- **National Institute of Technology, Warangal**
  *M.Sc in Mathematics and Scientific Computing*
  CGPA: 7.79                                        Warangal, Telangana, 2023–25

- **Fergusson College, Pune**
  *B.Sc. in Mathematics*
  Grade: B+                                          Pune, Maharashtra, 2022

- **Jawahar Navodaya Vidyalaya**
  *Higher Secondary – CBSE*
  Score: 91.4%                                       Wardha, Maharashtra, 2018
  *Secondary – CBSE*
  Score: 94.6%                                       Wardha, Maharashtra, 2016

## PROJECTS

- **Google Summer of Code with Optimagic**
  Develop and benchmark existing function optimization algorithms from different libraries. Add linear constraints even to algorithms that do not support using reparametrization. The aim is to provide a consistent internal and external interface to add any algorithms regardless of implementation.
  *Tools and Technologies used: optimagic, Python, C++, pytest. [link]*

- **Autonomous Driving System for ETS2 using CNN**
  Built and trained an end-to-end CNN model over the game *Euro Truck Simulator 2*. The dataset was close to 72 hours of driving. The input layer is screen capture of the front camera, label is steering angle. Used to benchmark Nvidia AGX Orin GPU with different power strategies.
  *Tools and Technologies used: Keras, OpenCV, PIL. [link]*

- **Portfolio Website with GitHub Pages**

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python

- **Software Frameworks:** Visual Studio, IntelliJ IDEA

- **Tools:** pytest, git

- **Cloud Frameworks:** Azure VMs

## COURSES UNDERTAKEN

- Data Base Management Systems
- Object Oriented Programming with C++
- Cryptography
- Introduction to Machine Learning
- Optimization Techniques

## EXTRA CURRICULAR ACTIVITIES

- Cleared the JLPT (Japanese Language Proficiency Test) N1 (July 2020) and acquired JLPT N1 certification.

- Participated and achieved second rank in the National level Mathematics Exhibition at Gandhinagar.