

Md Taj Hasan

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Profile

Motivated postgraduate student in **Applied Mathematics** with a passion for teaching and problem solving. I focus on building strong fundamentals and connecting math with real-life use-cases to help learners think clearly and independently.

Teaching Interests

- Matrices & Determinants
- Limit, Continuity & Differentiability
- Differential & Integral Calculus

Skills

- Python
- Mathematical Problem Solving
- Proof Writing
- [Placeholder: LaTeX / MATLAB]

Languages

- English
- Hindi
- Urdu

Research Interests

- Numerical Analysis
- Mathematical Modelling
- Optimization
- [Placeholder: Scientific Computing]

Education

M.Sc. in Applied Mathematics

NIT Warangal | 2025 – Present | CGPA: 7.30 (as of May 2025)

B.Sc. in Mathematics (Hons.)

Vinoba Bhave University, Hazaribagh | 2019 – 2022 | CGPA: 6.51

Intermediate (Class 12th)

Giridih (+2) High School, JAC | 2019 | 62.2%

Matriculation (Class 10th)

Upgraded High School, Charghara, JAC | 2017 | 66.4%

Relevant Coursework

Advanced Linear Algebra	Complex Analysis
Ordinary Differential Equations	Partial Differential Equations
Real Analysis	Probability & Statistics
Topology	Numerical Analysis
Computer Programming in C++	Numerical Computing Lab
C++ Lab	Probability & Statistics with R Lab
Symbolic Computing Lab	

Projects

- **Solution of Probability and Statistics using R** — Exploratory data analysis and simulation tasks in R; applied statistical tests and visualizations.
- **[Placeholder: Numerical Analysis with Python]** — Implemented root-finding, interpolation and ODE solvers using Python; analyzed error and stability.

Achievements

- IIT-JAM Mathematics (2024): All India Rank 712
- JEE Main (2019): Qualified

Positions of Responsibility

- [Placeholder: Class Representative / Math Club Volunteer — NITW, 2025–Present]
- [Placeholder: Peer Tutor — Assisted juniors with Calculus & Linear Algebra]

Certifications & Workshops

- [Placeholder: NPTEL — Probability & Statistics / Linear Algebra (Year)]
- [Placeholder: Workshop — LaTeX for Scientific Writing / MATLAB for Engineers]

References

- [Placeholder: Dr. , Assistant Professor, Dept. of Mathematics, NIT Warangal — advisor@nitw.ac.in]
- Available upon request.