



Aman Shrivastava

Roll No : 224103209

M.Tech - Mechanical Engineering

Indian Institute Of Technology, Guwahati

+91-728142647

amanshrivastava363gmail.com

aman.shrivastava@iitg.ac.in

LinkedIn | Github

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech.	Indian Institute of Technology, Guwahati	7.62 (Current)	2022-Present
B.Tech.(ME)	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	7.66	2016-2020
Senior Secondary	CBSE Board	79.20%	2015
Secondary	CBSE Board	8.80	2013

EXPERIENCE

- Teaching Assistant in Engineering Mechanics ME 101** March 2023- July, 2023
under Dr. Kruna Kalita(Prof. Dept of ME) IIT Guwahati
– Conducted Tutorial Classes of **Engineering Mechanics** for Btech Students and Checking Tutorial Copies.

PROJECTS

- Development & Finite Element Analysis of Bio Inspired High Energy Absorbing Composite Material** Ongoing MTP
under Dr.Prasenjit Khanikar IIT Guwahati
– Delignification & Microstructure study of Woods followed by Shear Thickening Fluid(Polyethylene glycol)Infiltration.
– **Designed** Honeycomb Inspired Lattice Structure with STF Infusion, Inspired by Balsa Wood's Microstructure.
– Experimentally it's Impact Load Analysis and Employed **ABAQUS for Simulated Impact** Testing.
- Developed Responsive Portfolio Website** 2023
personal project
– Created a professional, responsive portfolio website utilizing **HTML, CSS, JavaScript**, enhanced with Bootstrap for an impactful presentation. Website fully responsive to desktop, mobile and laptop Screen.
- Optimization of Shield Metal Arc Welding Parameters using Artificial Neural Network** Oct 2022
personal project [GitHub](#)
– Developed An Artificial Neural Network Model in C++ to optimize the Shielded Metal Arc Welding process parameters using a sequential ,Multi feed-Forward Neural network by Back Propagation Training Mode.
- Developed MobilePhones 2023 Dashboard : Power BI and MySQL Integration** Aug-2023
personal project [GitHub](#)
– Taken raw Dataset from internet, Applied **SQL queries** to rectify the data in Desired Tabular form.
– linked MySQL sever With Power BI, for interactive Dashboard Preparation.

TECHNICAL SKILLS

- Programming:** C, C++, Python
- Database Management :** MySQL
- Miscellaneous:** DSA, VS code, MS Excel, Word, PowerPoint.
- Web Technologies:** HTML, CSS, JavaScript*
- Data Visualization :** Tableau ,Power BI
- * Elementary proficiency**

KEY COURSES TAKEN

- Data Base Management System*
- Computing Laboratory
- Advanced Engineering Mathematics
- Power BI for Business Intelligence*
- Data Structures and Alogrithms*
- Soft Computing
- Introduction to Six Sigma*
- finite Element Method
- * Online platform**

POSITIONS OF RESPONSIBILITY

- M.Tech Student Representative**, Student Member of Department Postgraduate Program Committee (**DPPC**), Department of Mechanical Engineering IIT Guwahati.

ACHIEVEMENTS

- Secured 96.48 percentile in GATE 2022 Mechanical**, conducted by IIT Kharagpur 2022
- Certification of Excellence in National Level Quiz on Manufacturing Process**, conducted by M.P College 2020
- Secured 95 percent in National Level E-Quiz on Indian Economics**, 2020 2020

EXTRA-CURRICULAR

- **Subject Matter Expert, CHEGG INDIA PRIVATE LIMITED, DELHI** ,Solving Doubts of Mechanical Aspirants
 - **Industrial Training - BHEL, Bhopal**, Acquired Knowledge about Manufacturing of Products like Steam Turbines, Heat Exchanger, Traction Motors.
 - **Industrial Training - INDIAN RAILWAY**, Acquired knowledge about Diesel locomotive etc.
 - **Research and Industrial Conclave 2022 IIT Guwahati.**, volunteer in Core-Content Team.
 - **Mentor**, Saathi Counselling Club IIT Guwahati.
 - **AI Tools Workshop**, acquired knowledge about AI Tools like ChatGpt, Slidesgpt, Merlin.
 - **Participation**, Kendriya Vidyalaya Sports Meet in Table Tennis Regional Level
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2021-22