

Mahesh Shrinivas Gite

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[LinkedIn](#) — [GitHub](#)

Professional Summary

Motivated Mechanical Engineering student with a strong foundation in CAD design, engineering analysis, and project-based problem-solving. Skilled in applying Python and MySQL for technical automation and data management. Experienced in industrial optimization, achieving measurable results in preventive maintenance, product design, and innovative cooling and material solutions.

Skills

Programming & Data: Python, MySQL

Tools: Microsoft Excel, PowerPoint, Power BI, Tabular, MATLAB, GitHub, Teamcenter

Design & Analysis: SolidWorks, AutoCAD, ANSYS

Experience

Intern – Indorama Ventures Yarns Pvt. Ltd., Nagpur

May 2025 – Jun 2025

- Conducted preventive maintenance on industrial machines, **reducing time required by 20%** through workflow optimization.
- Performed detailed time study analysis to identify bottlenecks and recommended operational improvements.

Projects

1. **Voice-to-CAD Parametric Part Generator** Developed a web-based tool that generates 3D CAD models from voice commands using Three.js, speech recognition, and parametric modeling. Enabled engineers to create CAD designs **40% faster** without manual drafting.
2. **Eco-Friendly Immersion Cooling System Using Castor Oil** Designed an electronic cooling system using **non-conductive processed castor oil** as the dielectric fluid. Reduced electronic component overheating by **up to 30%** while maintaining an environmentally safe solution.
3. **Bamboo Starch-Epoxy Composite Material** Engineered a composite using bamboo starch as the matrix and epoxy resin as reinforcement. Achieved a lightweight, high-strength, and biodegradable material suitable for sustainable manufacturing.

Education

B.Tech – Mechanical Engineering

Shri Guru Gobind Singh Ji Institute of Engineering and Technology, Nanded

2022 – 2026

Certifications ([View Certificates](#))

1. SolidWorks Specialization – Dassault Systèmes
2. AutoCAD – Autodesk
3. Data Analytics
4. MATLAB – MathWorks
5. Fundamentals of Lean