# Rohit Rahul Jadhav

**B.Tech. - Mechanical Engineering**
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## BRIEF SUMMARY

Final-year Mechanical Engineering student with a solid technical background, strongly interested in sustainable technologies, energy-efficient systems, and advanced power electronics. Currently working on developing a high-efficiency charging system for electric vehicles, applying concepts of modern power electronics and thermal management. Skilled in mechanical design, manufacturing processes, IoT applications, and simulation tools, with proven leadership experience in coordinating technical projects and events. I have a strong problem-solving mindset and enjoy translating complex engineering concepts into practical solutions. I aspire to contribute to innovative projects that promote efficiency, sustainability, and technological advancement in modern industries.

## KEY EXPERTISE

| Manufacturing | Design | Simulation | Automation | CAD | Programming | Leadership | Analysis | Problem-solving

## EDUCATION

**B.Tech – Mechanical Engineering** 2022 - 2026
**Annasaheb Dange College of Engineering and Technology, Ashta, Sangli**
CGPA: 6.75 / 10.0 |

**HSC (12th Standard)** 2022

**Laxmanrao Kirloskar Vidyamandir And Junior College, Palus**
Percentage: 58.17% |

**SSC (10th Standard)**

**Laxmanrao Kirloskar Vidyamandir And Junior College, Palus**
Percentage: 74.60% |

## SKILLS

- **Technical Skills** :

I have strong technical proficiency in CATIA, SolidWorks, ANSYS, and CDA, along with a basic understanding of SAP MM (Materials Management). My expertise includes 3D modeling, product design, simulation, and finite element analysis (FEA). I am skilled in preparing technical documentation, reports, and engineering drawings, ensuring accuracy and efficiency in design and analysis tasks. I consistently apply these tools to optimize designs, enhance product quality, and support data-driven decision-making in engineering projects.

- **Core Mechanical Skills :**

My core mechanical knowledge covers a wide range of concepts, including manufacturing processes, thermal engineering, heat transfer, fluid mechanics, and thermodynamics. I am also familiar with machine design, material selection, and quality control techniques used in production environments. Additionally, I possess hands-on understanding of maintenance practices, inspection methods, and GD&T (Geometric Dimensioning & Tolerancing). I apply problem-solving and root cause analysis approaches to improve system performance and ensure reliable mechanical operations.

## INTERNSHIPS

- **Micro Enginerrs Private Ltd , Sawantpur, Tal : Palus, District : Sangli . Pin No : 416310,**

Position: Intern Duration: 20 Days ( Third Year Degree Internship)

Key Learnings & Skills:

Involved in the shaft manufacturing process, including Material selection and preparation Turning, Grinding, and Threading operations Precision measurement and quality inspection Gained knowledge of production planning, process flow, and quality control in mechanical component manufacturing

- **Kedar Metal Foundry,Palus, Tal: Palus, Dist: Sangli , Pin No 416310**
  Position: Industrial Trainee , Duration: 20 Days (Third Year Degree Internship– Summer Break)

  Key Learnings & Skills:
  Gained hands-on experience in metal casting and foundry operations
  Learned pattern making, core preparation, sand molding, and melting processes
  Understood quality control techniques in casting production
  Observed foundry workflow management and shop floor safety practices
  Exposure to material handling and thermal system applications in the foundry environment

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## PROJECTS

### 1.Automatic Solar Fertilizer Spreader Machine B.Tech Mini Project (3rdYear)

Developed a solar-powered machine that automates fertilizer spreading for small-scale farms, reducing manual labor and increasing efficiency.Integrated basic electronics and mechanical components to ensure uniform distribution using solar energy as a sustainable power source

### 2.Diagnosis of Bearing Faultsin Foundry Machinery (B.Tech Mega Project)

Working on a system to detect bearing faults in foundry machinery through vibration signal analysis and FFT techniques, improving machine reliability and preventive maintenance.

### 3. Plant Disease Detection (Minor Project)

Developed a plant disease detection system using image processing and machine learning. Analyzed leaf images to identify and classify various plant diseases accurately. Aimed to support farmers with early diagnosis and preventive solutions.Enhanced agricultural productivity through automation and smart technology.

## ASSESSMENTS / CERTIFICATIONS

- NPTEL Course – Business Development: From Start to Scale — Jan–Apr 2025
- NPTEL Course – Human Resource Management — Jan–Apr 2024
- Bajaj manufacturing systems — 30 Sep 2025
- Udemy Online Platform - SAP MM(Material Manegment) — Apr 2025
- Shivaji University - CATIA Design Software — Jan 2025

## PERSONAL INTERESTS / HOBBIES

Travelling
Trekking

## PERSONAL DETAILS

**Gender:** Male
**Marital Status:** Single
**Current Address:** Palus, Sangli, Palus-416310,Maharashtra
**Email:** jadhavrohit5295@gamil.com

**Date of Birth:** 20 Sep, 2004
**Known Languages:** English, Hindi, Marathi
**Phone Numbers:** +91-9307220406