

ROHAN PATIL

Mechanical Engineer

Location: Belagavi, Karnataka, India

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GitHub: <https://github.com/Rony2004bot>

Professional Summary

Motivated Mechanical Engineering student with foundational knowledge in AI/ML, Python programming, and design analysis. Seeking opportunities to apply mechanical engineering concepts combined with modern AI tools to solve real-world engineering problems.

Core Competencies

- Mechanical Design Fundamentals
- CAD Modeling & Basic Simulation
- Python Programming & AI/ML Fundamentals
- IoT System Development
- Data Analysis & Predictive Modeling

Education

Bachelor of Engineering (B.E.) – Mechanical Engineering

Gogte Institute of Technology, Belagavi, Karnataka

Expected Graduation: 2027

Class XII – Science (Physics, Chemistry, Mathematics)

Govindram Seksaria Science College, Belagavi, Karnataka

Year of Completion: 2023

Class X – State

Dnyan Prabodhan Mandir ICSE School, Belagavi, Karnataka

Year of Completion: 2021

Technical Skills

Design and CAD: CATIA V5, SolidWorks, AutoCAD

CAE and Simulation: ANSYS Workbench (Basic Static Structural)

Programming & AI: Python, AI/ML Fundamentals, Predictive Modeling

IoT & Hardware: ESP32, Sensor Integration

Tools and Technologies

CATIA V5, SolidWorks, AutoCAD, ANSYS Workbench, Python, Google Colab, GitHub, ESP32, Arduino IDE.

Academic Project

F1 Race Winner Prediction using AI/ML (Ongoing) – Developing a machine learning model using Python to predict race winners from historical data.

IoT-Based Smart System using ESP32 – Designed and implemented an IoT-based monitoring system with sensor integration and coding.

Heart Disease Prediction using Machine Learning (Python, Google Colab) – Built a predictive ML model using Python in Google Colab for disease classification

Internship

AKP FERROCAST:

Waghavade Road, Macche, Belgaum, Karnataka, India

- **Gained hands-on exposure to manufacturing and casting processes, linking theoretical knowledge with real industrial practices.**
- **Worked across multiple departments including Casting, Machining, Quality Control, Maintenance, Assembly, and Pattern Shop.**
- **Developed understanding of CNC machines, machining tools, quality inspection techniques, and paint shop operations.**
- **Learned process management, teamwork, discipline, workflow coordination, and the impact of plant layout on efficiency and safety.**
- **Acquired knowledge in pattern design, material testing, machining fixtures, production planning, and quality documentation (CMM, PPAP, control plans, FMEA).**

Soft Skills

Analytical thinking, problem-solving, attention to detail, teamwork, adaptability, time management.

Additional Information

Languages: English, Hindi, Kannada, Marathi

Professional Traits: Detail-oriented, reliable, quick learner