

SAYALI JADHAV

■ +91 9322238266 | ✉ sayali.jadhav0730@gmail.com | [linkedin.com/in/jadhavsayali3009](https://www.linkedin.com/in/jadhavsayali3009) ■ Pune

PROFESSIONAL SUMMARY

Highly motivated Mechanical Engineering student with a strong foundation in design, simulation, and real-world engineering applications. Passionate about developing innovative, cost-effective, and sustainable solutions, demonstrated through hands-on vertical landing mechanism project. The project involved design and analysis focusing on thrust variation with respect to nozzle geometry and pulsation. A proactive learner with a problem-solving mindset, eager to contribute and grow in dynamic engineering environments.

TECHNICAL SKILLS

- 3D Modeling
- Surfacing & Sheet Metal Design
- Structural Analysis
- Simulation
- GD&T
- Fundamental knowledge about Mechanical Engineering

TOOLS & SOFTWARE

- SolidWorks (Completed)
- Autocad (Completed)
- CATIA V5, Ansys WB (Currently Pursuing)

PROJECTS

Vertical Landing Mechanism

Engineered the design and analysis of a vertical pulsed jet system, focusing on thrust variation with nozzle geometry and pulsation parameters.

Generative Design and Topology Optimization of Lightweight Bicycle Pedal using Fusion 360

Designed and optimized a lightweight bicycle pedal using generative design and topology optimization in Fusion 360. Achieved significant weight reduction while maintaining structural strength through simulation-driven design.

INTERNSHIPS

Educadd, Akurdi (Jan 2026 – Feb 2026)

Assisted in SolidWorks modeling and basic GD&T, supported training sessions, and gained hands-on experience in design workflows, drafting processes, and overall product design flow.

Project Engineering Company, Talawade (June 2023 – August 2023)

Assisted in project engineering tasks, along with gaining exposure to fabrication processes such as cutting, welding, fitting, and assembly, including documentation, basic design support, coordination with team members, and gained hands-on experience in workshop operations.

EDUCATION

- B.E Mechanical Engineering (Pursuing) – DYPIRME, Akurdi (Sept 2024 – June 2027)
- Diploma in Mechanical Engineering - Pimpri Chinchwad Polytechnic, Akurdi (Aug 2022 – June 2024)