Shanu Jha

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Professional Summary

Aspiring Mechanical Engineering student with interest in robotics, CAD design, and IoT integration. Skilled in AutoCAD, Fusion 360, Arduino, and Python. Passionate about combining mechanical systems with AI/ML technologies to create innovative solutions.

Education

IIITDM Kurnool — Kurnool, India
B.Tech + M.Tech Dual Degree, Mechanical Engineering — 2024 – 2029
Relevant Coursework: Mechanics, Robotics, Thermodynamics, AI/ML Basics

Experience

AI and ML Intern — Inlighn Tech, Remote
July 2025 – Aug 2025

- Worked on building an AI-powered notes summarizer and quiz generator using NLP models and Streamlit.
- Gained experience in Python, transformer-based models, and web deployment.

Projects

Smart Robotic Car with Obstacle & Pothole Detection — 2025

- Designed Arduino-based robotic car with multi-directional sensing, auto-retrace, and terrain classification.
- Integrated servo motors, encoders, and RGB LEDs for smart navigation.

AI-Powered Notes Summarizer + Quiz Generator — 2025

- Developed NLP-based app for automated summarization and quiz generation using Python and Streamlit.
- Applied text preprocessing, transformer models, and question generation algorithms.

Skills

Programming:	Python, C, Arduino, MATLAB
CAD Tools:	AutoCAD, Fusion 360, Catia V5
IoT Tools:	Arduino, Blynk, Twilio
Other:	Machine Learning (Basics), Problem Solving

Interests

Robotics, Aerospace Systems, CAD Design, Artificial Intelligence, Renewable Energy, Machine Learning, Chasis Design

BCGX certification GenAI Job Simulation (Forage Certificate)