SANKET KUMAR

Mechanical Engineering
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Education	Institute	Year	CGPA
Class 12th	APS Clement Town	2023	85%(percentage)
Graduation	NIT Srinagar	2023-2027	8.32(up to 4th sem)

OBJECTIVE

Mechanical Engineering undergraduate with skills in CAD, CAE, CAM, and AI/ML, seeking to apply and expand technical knowledge through industry-driven projects. Focused on learning, contributing, and adapting in fast-paced engineering environments.

PROJECT

- Mechanical/CAD & Simulation Projects
  - **Surface Modeling of Fighter Jet Aircraft** *(SolidWorks)*
    Designed a complete 3D model using surface modeling tools to accurately replicate the aerodynamic shape of a modern fighter jet.
  - **Surface Modeling of Nissan GTR Sports Car** *(SolidWorks)*
    Created a high-fidelity surface model of the Nissan GTR, capturing complex curves and automotive design elements using advanced CAD techniques.
  - **3D Model of ABB Robotic Arm** *(SolidWorks)*
    Designed a functional robotic arm assembly with joint constraints and motion simulation for industrial automation purposes.
  - **Simulation of Various Fin Geometries** *(Ansys)*
    Performed thermal simulations to compare heat dissipation across different fin shapes and materials.
  - **Coupled Transient Thermal & Structural Analysis – Laser Cut** *(Ansys Workbench)*
    Analyzed the thermal load and resulting stress distributions during laser cutting over time.
  - **3D Design of Jet Engine** *(SolidWorks)*
    Modeled compressor blades, turbines, and combustion chamber in a full jet engine assembly.

- **Heat Simulation of Engine Components** *(Ansys)*
  Simulated heat transfer in components like piston, cylinder, and fins to evaluate thermal behavior under engine-like conditions.

- Data Analytics & ML Projects
  - **Sales Forecasting using Machine Learning** *(Python, Scikit-learn)*
    Built regression models to predict sales using historical data trends.
  - **Heart Disease Prediction** *(Python, ML)*
    Developed a classification model using medical data; achieved over 85% accuracy.
  - **Excel & Power BI Dashboards**
    Created dashboards for visualizing manufacturing data and performance indicators.

SKILLS

Technical Skills	• CAD/CAM/CAE: SolidWorks, Siemens NX, Ansys (Thermal & Structural), ODYSSEE CAE • Programming: Python, C language • Simulation & Analysis: MATLAB, Transient Thermal & Structural Analysis • Data Analytics & ML: Excel, Power BI, Pandas, Scikit-learn, Matplotlib • Other Tools: MS Office, Git
Soft Skills	Problem-Solving • Team Collaboration • Communication • Time Management • Attention to Detail • Adaptability • Analytical Thinking • Creativity

EXPERIENCE

Sponsorship Lead
Range Chinar (2025) &
Techvaganza(2024)

- Led sponsorship team for college cultural and technical fests; handled outreach and partner coordination.

Team Leader
Aakruti Innovation Competition, 2025

- Guided a team in CAD modeling and design; managed workflow and project execution using SolidWorks.