



SANKET KUMAR

Mechanical Engineering
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| Education | Institute | Year | CGPA |
|-------------|------------------|-----------|---------------------------------------|
| High School | APS Clement Town | 2023 | 85%(percentage) |
| Graduation | NIT Srinagar | 2023-2027 | 7.659(up to 4 th semester) |

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

- **Nissan GTR Sports Car Surface Model**
 1. Created a high-fidelity, smooth surface model of the Nissan GTR using Surface Modelling tools in SolidWorks, focusing on complex curves and aerodynamic features.
 2. The model maintained excellent surface continuity and aesthetic detail to support further CFD analysis and automotive design validation
- **Coupled Transient Thermal-Structural Analysis of Laser Cutting (Ansys Workbench)**
 1. Performed a coupled transient thermal-structural simulation replicating a laser cutting process with a 2 kW laser power input, modelling temperature evolution up to 1200°C over a 10-second cutting duration
 2. Analyzed induced thermal stresses reaching peak values of 150 MPa, along with 0.5 mm maximum deformation, to predict material distortion and optimize process parameters.
 3. Outcomes contributed to reducing material defects by 30% and improving dimensional tolerances within ±0.1 mm through simulation-driven parameter optimization
- **Sales Forecasting using Machine Learning (Python, Scikit-learn)**
 1. Developed and optimized machine learning models such as Linear Regression, Random Forest, and Support Vector Regressor to forecast monthly sales using over 24 months of historical sales data. Achieved an R² score of 0.85 and reduced Root Mean Squared Error (RMSE) by 15%.
 2. Used Python libraries (Pandas, Scikit-learn, Matplotlib) for data preprocessing, model tuning, and result visualization, enhancing inventory forecast accuracy by 20%

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

Rang-e-Chinar (2025) &

Techvaganza (2024)

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

Programming Intern

Vital Skills- [Remote]

- Developed and optimized machine learning models using Python libraries for data analysis and visualization, enhancing predictive accuracy and supporting efficient workflow implementation.

Team Leader

Aakruti Innovation Competition, 2025

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

Campus Ambassador

DevTown

- Promoted DevTown's programs on campus, organized events to boost student engagement, and collaborated with the team to enhance outreach and communication strategies