SURLA SAI SARITHA

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OBJECTIVE

A mechanical engineering graduate with strong programming and problem-solving skills, seeking a software development role to apply technical knowledge and grow in the tech industry.

EDUCATION

Anil Neerukonda Institute of Technology and Sciences	2021-2025
B.Tech – Mechanical Engineering	89.5%
Sri Chaitanya Junior College	2019-2021
12th Grade	94.3%
Narayana E-Techno School	2018-2019
10th Grade	98%

TECHNICAL SKILLS

Core Skills: AutoCAD,ANSYS
Programming Languages: Python,Django,RestAPI
Frontend Technologies: HTML,CSS,JavaScript,React JS
Databases: MySQL, MongoDB

SOFTSKILLS

Quick Learner | Team Work | Problem Solving | Leadership Qualities | Effective Communication

INTERNSHIP

Internship at BHEL – Bharat Heavy Electricals Limited   06/2024 - 07/2024
Completed an offline internship for one month in Press Shop Department by BHEL.
- Gained more knowledge in different types of Welding.
- Learned how to operate hydraulic press, CNC and Lathe machines.

Certificate: https://tinyurl.com/3xt63hy8

PROJECTS

Effect of inlet velocity, Turning Angle and Area Ratio in Y-Shape Diffusers with elliptical inlets and circular outlet

The performance of Y-shape diffusers with elliptical inlets and circular outlets depends on inlet velocity, turning angle, and area ratio, which affect flow behavior and pressure losses. This study uses Fusion 360 and ANSYS Fluent to analyze these effects.

   The diffuser is expected to show improved pressure recovery (0.6–0.8), reduced flow separation at inlet velocities of 5–10 m/s, and better outlet velocity uniformity within ±10%, with optimal turning angles of 30°–45° and area ratios of 1.5–2.0.

Social Media Addiction Analysis using MySQL and Power BI

Analyzed data from 705 students using MySQL and Power BI to study the impact of social

media usage. The dashboard revealed that high social media use is linked to poor sleep, increased conflicts, and lower academic performance.

Project Link: https://github.com/Saisarithasurla/MYSQL/tree/main/PROJECT

GUI Calculator with Advanced Features

Developed a desktop calculator application using Python and Tkinter that supports both basic operations—addition, subtraction, multiplication, and division—and scientific functions such as square root, square, percentage, and trigonometric calculations (sin, cos, tan). The calculator includes features like sign toggle (+/-), backspace, and clear operations, all within an intuitive and responsive GUI designed with custom icons using Tkinter and PIL. Robust error handling ensures smooth user interaction and safe evaluation of expressions, demonstrating strong skills in Python programming and GUI development.

Project Link: https://github.com/Saisarithasurla/Calculator

Interactive Image Gallery

Developed an Interactive Image Gallery to address the challenge of browsing multiple images efficiently on different devices. Using HTML, CSS, and JavaScript, I implemented a responsive grid layout, smooth navigation controls, and full-screen viewing, ensuring a seamless experience on both desktop and mobile. The result is a user-friendly web gallery that allows smooth image browsing and consistent performance across all screen sizes.

Website Link: https://saisarithasurla.github.io/Image_Gallery/
Project Link: https://github.com/Saisarithasurla/Image_Gallery

CERTIFICATIONS

- Fundamentals of Automotive Systems, IIT Madras – NPTEL (2023)
- CATIA-V5 - Infosys Spring Board December (2023)
- Basics of Python - Infosys Springboard July (2024)
- Entrepreneurship, IIT Madras -NPTEL (2024)
- LIDAR Data Processing and Applications, IIRS – ISRO, Dehradun (2024)
- Participation Certificate in iNNOVeX – SIH (2023)

Certificates: https://tinyurl.com/4r3shhb8

WORKSHOPS

- Participated in a two-day workshop on "**Awareness on Nuclear Power Generation**" From 20-06-2023 to 21-06-2023.
- Participated in a one-day online workshop on "**Innovation and Entrepreneurship as a career option: Challenges and opportunities** on 01-10-2023.

WEBLINKS

LeetCode: https://leetcode.com/u/surla-sai-saritha/
Github: https://github.com/Saisarithasurla
HackerRank: https://www.hackerrank.com/profile/surlasaritha