

Hemant Raj Sen

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[LinkedIn](#) | [Github](#) | [Leetcode](#) | [Personal-Website](#)

Objective

A Computer Science student interested in AI/ML, with problem-solving skills and leveraging Python for creating real world projects. Seeking an opportunity to apply and enhance technical skills in a real-world environment.

Skills

Programming: Python, C/C++ , SQL

Core Concepts: Data Structures & Algorithms, OOPs, Database Management System

AI/ML: Basics of Machine Learning, Data Analysis

Tools: Git, GitHub, VS Code, Jupyter Notebook, Vercel

Soft Skills: Quick Learning, Communication skills, Problem-solving, Consistency.

Education

| Institution & Degree | Details/Score |
|---|--|
| Jaypee University of Engineering and Technology (JUET) B.Tech in Computer Science and Engineering (CSE) | Currently in 2nd Year With Current CGPA: 7.51 |
| Shri Gurukul Sr. Sec. School, Guna 12th Class (Senior Secondary) | Score: 85.6% |
| Shri Gurukul Sr. Sec. School, Guna 10th Class (Secondary) | Score: 93.4% |

Projects

- **Machine Learning Optimization: Gradient Descent | Python, Mathematical Modeling (on Github)**
Engineered a fully functional implementation of the Gradient Descent optimization algorithm entirely from scratch in Python.
Programmed the core mathematical logic to compute gradients and optimize cost functions iteratively, demonstrating a deep, foundational understanding of underlying machine learning mechanics.
- **Python GUI Utility Suite | Core Python, GUI Frameworks, Image Processing (on Github)**
Developed custom, localized desktop system utility applications featuring an Image Compression Tool and an Image Resizer.
Built the graphical user interface from the ground up while implementing algorithmic logic to efficiently reduce file sizes and scale image dimensions without critical quality loss.
- **F1 Telemetry Analysis (Currently working on it, repo on Github)**
Utilized the FastF1 API and Python to conduct technical telemetry analysis and compare driver performance for the 2026 season.

Interests & Activities

- Passionate about leveraging Machine Learning and predictive analytics to solve complex, data-driven problems.
- Professional networking and skill verification on platforms like LinkedIn.
- Continuous Learning: Interest in cyber security and exploring classical literature.