

# Satvik

 [github.com/Satvik713](https://github.com/Satvik713)  [linkedin.com/in/satvik](https://linkedin.com/in/satvik)  [satvikumar02@gmail.com](mailto:satvikumar02@gmail.com)

## EDUCATION

---

**Birla Institute of Technology and Science(BITS) Goa, India**

June 2025

*B.S. Electronics and Instrumentation*

## COURSEWORK

**Courses:** Object-Oriented Programming, Digital Image Processing Machine Learning, Linear Algebra, Calculus, Probability & Statistics, Supervised Machine Learning: Regression and Classification, Neural Networks and Deep Learning, Artificial Intelligence: Deep Reinforcement Learning (Hugging Face)

## SKILLS

---

**Languages:** C/C++, Python, Java

**Tools:** Git/GitHub, PyTorch, JAX, Tensorflow, Matlab

**Machine Learning:** Natural Language Processing, Large Language Models(BERT/GPT), Computer Vision

## PROJECTS

---

**LLMs for Real time Network data analysis** | *Python, PyTorch, Transformers, LLMs* Nov 2023 – Present

- An official BITS funded project under SPARKLE
- Aiming to create SOTA LLM architecture for network data analysis
- Read multiple papers related to LLMs like BERT, ET-BERT, netFound etc and drew a BERT architecture for our specific use case

**MNIST classification using TinyGrad and Pytorch** | *Python, Pytorch, TinyGrad, Git, Matplotlib* Jan 2023

- A personal project to learn tinygrad implementation
- Implementing neural networks using pytorch and tinygrad for comparison
- Comparison of different machine learning frameworks

**Using DL models to refine plant promoters data** | *Python, Plant Biology, Matplotlib, Pytorch* Jan 2024 – Present

- Official study project under Biological sciences prof. Rajesh Mehrotra
- Refining large amount of data collected from experimenting with plant promoters

**Creating portable ECG device for automatic arrhythmia detection** | *Python, PyTorch, LLMs* Dec 2023 – Present

- Project under Professor Neena Goveas at BITS Pilani, Goa
- We are developing a portable ECG device for rural areas
- ECG device will be integrated with an automatic arrhythmia detection module using Machine Learning

## EXPERIENCE

---

**College Setu Pvt. Ltd.** | *Intern*

May 2023 – July 2023

Worked as a product management intern Creating and managing two premium products of the company Collaborated with ML team for the creation of a chatbot

## HOBBIES

**Painting and Drawing**

Oil painting and sketching