

# Suvan Banerjee

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## EDUCATION

**Dayananda Sagar College Of Engineering**

*B.E in Information Science (VTU)*

**SGPA: 8.85**

*2022 - 2026*

**Kendriya Vidyalaya No.1 Bikaner**

*CBSE - HSC/SSC*

**87.4%**

*2020 - 2022*

## SKILLS

**Languages:** Python, C, C++, JavaScript, Bash

**Frameworks/Technology:** Linux, Git, Github, Arduino, Cryptography, Yolo

## PROJECTS

### Portfolio

[Portfolio](#)

- Showcase of personal and professional projects.
- Includes minor projects such as Battery Optimizer, Disk Activity Notifier, Tic-Tac-Toe and more.

### Smart Traffic Management System — *Python, Pyfirmata, FTPLib*

[GitHub](#)

- Utilized computer vision (yolo v8) for adaptive traffic signal control and real-time traffic density calculation.
- Utilized Arduino Uno to control traffic lights, enhancing traffic management and signal synchronization.
- Implemented WLAN data transfer using FTP to send real-time traffic density information for signal and data logging and utilized parallel computing for efficient data processing and traffic management

### Drowsiness Alert System—*Python, Flask, 3D Builder*

[GitHub](#)

- Contributed to a project involving an AI-based clip-on module for cars and was in top 10.
- Utilized AI and computer vision to detect driver drowsiness with 93% accuracy during daytime.
- Created a 3D-printable design for the Clip-on Module's structure and conducted code testing using QEMU.

### Message Encryptor—*Python, PyAutoGUI*

[GitHub](#)

- Text encryption and decryption tool utilizing the AES encryption algorithm.
- It has two versions one with a Command-Line Interface and other with a basic Graphical User Interface (Pyautogui)

### NMAP Web Console — *Bash,HTML*

[GitHub](#)

- Participated in a Hackathon project utilizing Bash and HTML.
- Used CGI to fetch and format nmap terminal output on a web browser.
- Enabled users to view results conveniently and generate PDF reports using basic HTML.

## ACHIEVEMENTS AND CERTIFICATIONS

**Top 10 Among 48 Teams in Hackathon — *Hackman v6***

**Secured 5th rank in DataHack among 70 — *DSCE***

## EXTRACURRICULAR

### PointBlank - Member

Dec 2022 - Present

PointBlank is a group of over 80 programmers who work to promote coding culture in colleges by participating in more than 10 contests and organising technical seminars

### GDSC DSI - Member

Feb 2023 - Present

Google Developer Student Clubs (GDSC) is a student club that organizes coding workshops and technical seminars. GDSC has a culture of learning and collaboration, and members work on coding projects and open-source contributions.

### Arcis - Member

Dec 2022 - Feb 2023

Team Arcis is the Official Aero Design of Dayananda Sagar College of Engineering. They participate in the SAE Aero Design Challenge and AIAA DBF, two of the biggest student design competitions, held annually in USA.