

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 — Higher Secondary/Senior School

87.4%

2020 - 2022

SKILLS

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

Frameworks/Technologies: Linux, Git, Github, Arduino, Cryptography, Docker

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

Youtube Downloader—*Python, Pytube, GUI Libraries*

[GitHub](#)

- A simple GUI based youtube video downloader For Windows and Linux(DEB)
- Utilized Pytube library to download videos and audio from youtube.
- Implemented Downloading Playlist or Video in various resolutions in a user-friendly way.

Message Encryptor—*Python, Pyscript, Fernet*

[Deployed](#)

- A simple message encryptor that uses Fernet symmetric encryption.
- Utilized a Python library pycrypt to encrypt and decrypt messages.

WeatherKit — *Python, API, Web Scraping*

[PyPi](#)

- A weather forecasting tool that provides weather without API key.
- Utilized Meteo API and web scraping to provide accurate weather information.
- Developers can use address or location coordinates to get weather and forecast information.

ACHIEVEMENTS AND CERTIFICATIONS

Google Cybersecurity

[Coursera \(Mar 2024\)](#)

An eight course professional certificate program in cybersecurity. Equipped with skills in threat detection, incident response, network security, python automation, SQL etc.

AI Security Fundamentals

[LakeraAI \(Mar 2024\)](#)

AI Security Course, covering topics such as GenAI threats, cybersecurity frameworks, AI application security, LLM red teaming, and AI governance.

HackMan v6

May 2023

Secured position in top 10 among 50 other teams. Hackman is a Inter-College hackathon conducted by ISE Depart of DSCE College

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

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.