

# Sayan Mandal

## B.Tech CSE Student

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### CAREER OBJECTIVE

B.Tech Computer Science student with hands-on experience in Python, Data Science, Machine Learning, and Generative AI. Skilled in building real-world projects, REST APIs, Flask and FastAPI. Passionate about developing scalable, data-driven and AI-powered solutions for real-world applications.

### WORK EXPERIENCE

#### Python Development • Internship

Aug 2025 - Sep 2025

Cognifyz Technology, Virtual

Developed Python applications and automation scripts (string utilities, email validation, temperature converters, file processing) to enhance workflow efficiency. Built interactive programs and data tools including calculators, palindrome checkers, guessing games, and data visualization dashboards using Matplotlib and Seaborn. Designed web scraping and reporting solutions with BeautifulSoup to extract structured data and automate report generation, reducing manual effort by 30%.

#### Python Development • Internship

Aug 2025 - Sep 2025

BroskiesHub, Virtual

Developed Python automation tools and utilities (CLS Calculator, To-Do App, Image Resizer) to improve task efficiency. Built a Flask REST API and web scraper with authentication, CRUD operations, and data analysis using Pandas and Matplotlib. Designed and launched a Restaurant Management System with secure login, menu/order tracking, and a personal portfolio website.

### EDUCATION

#### B.Tech, Computer Science & Engineering

2023 - 2027

Swami Vivekananda Institute Of Science And Technology

CGPA: 8.25/10

#### Senior Secondary (XII), WBCHSE

2021 - 2023

Science

Akchara Desh Bandhu High School

Percentage: 69.60%

#### Secondary (X), WBBSE

2020 - 2021

Akchara Desh Bandhu High School

Percentage: 88.43%

### TRAININGS / CERTIFICATIONS

#### Data Science

Sep 2025

Oracle university, Virtual

#### Generative AI

Aug 2025

Oracle university, Virtual

#### Generative AI

Jul 2025

ExcelR, Kolkata

#### Data Structures

Aug 2024

Great Learning, Virtual

#### Machine Learning

Jul 2024

I-HR Technology Solutions Pvt. Ltd., Kolkata

#### Devops

Sep 2025

Oracle university, Virtual

#### Python Programming

Aug 2025

udemy, Virtual

#### MARN Stack

Jul 2025

ExcelR, Kolkata

#### Data Analytics

Jul 2024

I-HR Technology Solution Pvt. Ltd., Kolkata

# PORTFOLIO

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[GitHub link ↗](#)

[Portfolio link ↗](#)

## PROJECTS

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### [AgroPulse ↗](#)

Apr 2026

Built AgroPulse, an AI-based smart agriculture platform integrating machine learning, APIs, and data analytics to deliver crop recommendations, weather insights, and real-time farming guidance through an interactive web interface.

### [Video-Audio DevOps ↗](#)

Feb 2026

Developed a Video-Audio DevOps pipeline to automate processing and deployment of multimedia content using CI/CD practices. Implemented workflow automation, version control, and scalable deployment strategies to improve efficiency and reliability of media applications.

### [Face Detector ↗](#)

Jul 2025

A simple and effective real-time face detection tool using OpenCV and Python. This project uses Haar Cascade Classifiers to detect faces from your webcam feed, draws bounding boxes, and allows you to save snapshots with a single key press.

### [MediAssist AI ↗](#)

Mar 2026

Developed MediAssist AI, an AI-powered healthcare assistant that analyzes symptoms and provides medical insights using machine learning and NLP. Built interactive features and APIs to deliver real-time health guidance and improve decision-making support.

### [ATS Resume Checker ↗](#)

Jul 2025

An AI-powered system that automatically analyzes resumes, extracts skills and entities (name, email, phone), and matches them with relevant job descriptions using NLP and ML models.

### [Jarves ↗](#)

Jan 2025

A Python-based virtual assistant that can perform a variety of tasks such as checking the time and date, searching Wikipedia, playing music, taking screenshots, telling jokes, and even controlling the system (shutdown or restart).

## SKILLS

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- English Proficiency (Written)
- Bengali Proficiency (Written)
- Problem Solving
- CSS
- Data Structures
- Object Oriented Programming (OOP)
- Django Rest Framework
- Pandas
- OpenCV
- Streamlit
- Generative AI Development
- LangChain
- Keras
- Spring Boot
- Automation
- Database Management System (DBMS)
- DevOps
- CI/CD
- English Proficiency (Spoken)
- Hindi Proficiency (Spoken)
- C Programming
- JavaScript
- Computer Architecture
- Python
- REST API
- TensorFlow
- Flask
- Artificial intelligence
- Generative AI Tools
- Hugging Face
- Python Libraries
- Presentation skills
- APIs
- Computer Networks
- Docker
- Bengali Proficiency (Spoken)
- Effective Communication
- HTML
- Algorithms
- Operating Systems
- Django
- NumPy
- PyTorch
- scikit-learn
- Machine Learning
- FastAPI
- Kaggle
- Java
- Microsoft 365
- Data Analytics
- MySQL
- Kubernetes