

Amol Singhal

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Education

Graphic Era Deemed To Be University

Bachelor of Technology in Computer Science and Engineering

Aug. 2023 – Present

CGPA: 8.2

Vidya Global School

H.S.C

2022 – 2023

Percentage: 85

Vidya Global School

S.S.C

2020 – 2021

Percentage: 92.50

Projects

Grypfit - Gym Equipment Business Website — www.grypfit.com

Jan. 2026

HTML, CSS, JavaScript, React, Google Maps API

- Engineered a high-performance, responsive commercial website for **Grypfit** (Singhal Industries), increasing digital visibility for a wide range of gym and sports equipment.
- Developed a scalable product catalog architecture capable of rendering hundreds of items with high-resolution imagery and optimized loading speeds.
- Integrated the Google Maps API for precise location services and a direct-to-WhatsApp API to streamline customer inquiries and lead generation.
- Designed a modern, brand-aligned UI/UX with seamless navigation, resulting in improved user engagement and reduced bounce rates.

Attendance Management System — GitHub

Jan. 2025

HTML, CSS, JavaScript, Python, MySQL

- Architected a comprehensive web-based platform to automate student attendance tracking, replacing manual paper-based workflows.
- Implemented a secure Role-Based Access Control (RBAC) system to enforce distinct permissions for Admins, Teachers, and Students.
- Designed a normalized MySQL database schema to ensure efficient data integrity for thousands of attendance records.
- Developed an automated reporting engine that aggregates data and generates downloadable monthly reports in CSV/PDF formats for administrative review.

Phishing Website Detection System

Jul. 2025

Python, Flask, Scikit-learn, Pandas

- Built a machine learning-powered web application capable of detecting malicious phishing URLs with high accuracy in real-time.
- Trained a Random Forest classifier on a dataset of over 10,000 legitimate and phishing URLs, achieving an accuracy rate of 95%.
- Developed a Flask REST API to process user-submitted URLs, extracting lexical features (e.g., URL length, presence of IP address) for prediction.
- Created an intuitive frontend interface allowing users to scan links instantly and view a detailed safety analysis report.

Technical Skills

Programming Languages	Python, Java, C/C++, HTML/CSS, JavaScript, React, SQL
CS Fundamentals	Data Structures, Algorithms, DBMS, OOPs
AI/ML/Data Science	Pandas, NumPy, Matplotlib
Database & Cloud	MySQL, PostGres, AWS (Basics)
Tools	Git, GitHub, VS Code, Linux
Soft Skills	Communication, Teamwork, Leadership, Analytical Ability

Certifications

- **NPTEL/SWAYAM:** Data Science Using Python (IIT Madras) – ELITE grade
- **Google Cloud Skill Badge:** Build a Secure Google Cloud Network
- **Getting started with DevOps:** Learned DevOps practices with AWS for secure, faster deployment.