

SANKALP SINGH

1vishen@proton.me | 1vishen.github.io/Portfolio | linkedin.com/in/1vishen | github.com/1vishen

EDUCATION

SRM Institute of Science and Technology

Bachelor of Technology in ECE with specialization in Cyber Physical Systems, GPA: 9.24

Chennai, TN

Sept. 2020 – May 2024

Sunbeam Academy

12th Standard IN PCM, Percentage: 92.2%

Varanasi, UP

Apr. 2016 – May 2018

TECHNICAL SKILLS

Programming Languages: Java, C++

Web Development: HTML, CSS, JavaScript

Core Subjects: Cyber Physical Systems, Data Structures and Algorithms, Object-Oriented Programming (OOP)

Developer Tools: Visual Studio Code (VS Code), GitHub, Google Colab

PROJECTS

WeatherTrakt - Real-time Weather Information Web App | *HTML, CSS, JavaScript*

[GitHub](#) | [Live](#)

- Designed and built a **dynamic web app** using HTML, CSS, and JavaScript to provide **real-time** weather information globally.
- Integrated **OpenWeatherMap API** to fetch and display weather data, enhancing user experience.
- Created a responsive, user-friendly interface with **dynamic weather icons** for quick visual representation.

HumanFallDet - Multi-Class Fall Detection Using Machine Learning | *Python, Google Colab*

[Code](#)

- Categorized ActivityIDs into five distinct classes to enhance differentiation between falls and daily activities, employed SMOTE for balanced representation.
- Created a CNN with Conv1D, MaxPooling, and Dense layers, achieving **99.4% accuracy** on the test set.

Automatic Room Light Control | *Arduino IDE, Github*

[GitHub](#)

- Designed and Programmed an automatic light control system using **Arduino** and **PIR sensor**.
- Calibrated sensor **sensitivity and delay** to enhance system performance and accuracy.

EXPERIENCE

Software Engineer Trainee

July 2024

Forage - JP Morgan Chase & Co.

[Certificate Link](#)

- Established a local dev environment by downloading **15 necessary** files, tools, and dependencies.
- Repaired **20 + broken files** in the repository to make the web application output correctly.
- Utilized JPMorgan Chase's open-source library, Perspective, to create a **live graph** displaying a data feed, enhancing data visibility by 30% for traders.

AICTE NEAT Internship

May 2023 – July 2023

AWS Academy

[Certificate Link](#)

- Acquired proficiency in **AWS core services**, security, architecture, and pricing.
- Focused on cloud economics, infrastructure, and design patterns in preparation for AWS Certified **Cloud Practitioner** and Solutions Architect exams.

CERTIFICATIONS

Mastering Data Structures and Algorithms using C++

[Certificate Link](#)

HTML, CSS, and Javascript for Web Developers

[Certificate Link](#)

ACHIEVEMENTS AND AWARDS

Authored and published a paper in IEEE.

[Paper Link](#)

Performance-based Scholarship: Received for 3 consecutive years for exceptional academic performance.

Outstanding Academic Performance Award: Recognized as top performer, awarded certificate & plaque.