Satvik Vemuganti

CS Undergrad

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About Me

Code. Cricket. Coffee.
This summer, I've had all of these and I'm loving every second. I enjoy reading. So, naturally, I blog my thoughts and experiences too. Recently, I've gotten my hands dirty with some research work mostly through my internships but a bit through self study. But then, I love dreaming too. And one day, I dream to run a Trillion Dollar CS research lab.

Work

SOFTWARE HERITAGE

| Intern | GSoC 2022

Jun 2022 – Present
Building metadata indexers for SWHs archived content
Mentors: Stefano Zacchiroli, Valentin Lorentz and Kumar Shivendu

IIT BHU

| Research Intern

May 2022 – Present
Working on android malware detection using Deep Learning, advised by Dr. Mayank Swarnkar

IIT DELHI

| Research Intern

March 2022 – May 2022
Worked on the issue of location privacy of UASs, advised by Dr. Dhiman Saha.

Projects

ACTIVITY TRACKER MOBILE APP | Flutter

Android and NodeJS Server

➜ Used flutter bridging and channels to pass app usage data from java application to the flutter app.
➜ Harvested Geolocation data from GPS to keep track of device location.
➜ Created an endpoint API in the NodeJS server for the Activity-Tracker project (that exists for desktop and VSCode activity tracking).

TO-DO LIST APP | Flutter

Android and iOS

➜ Built an interactive cross platform application to track tasks and goals, using Flutter
➜ Employed widgets offered by Flutter for a clean and efficient UI.

MEDICAL-DIAGNOSIS-WEB-APP | Python

Click here!

➜ A data-science project that uses decision tree based modelling to predict the disease, given the symptoms. Trained on the following dataset. Model was returning accuracy in the range of 90% to 96%, on an 75-25 dataset split ratio.

TICTACTOE | HTML, CSS, JavaScript

Browser

➜ An interactive browser version of the popular 2-player game TicTacToe. Webpage template written in HTML and styling given using CSS. Interactivity and the game-algorithm written in JavaScript.

Skills

PROGRAMMING

Proficient:
Python • CSS • HTML •

Experienced:
Python • LaTeX • Flutter

Familiar:
Shell • Vim • JavaScript

TOOLS/PLATFORMS

Git • Jenkins • VSCode

Education

IIT BHILAI

Bachelor's in Computer Science
November 2020 - Present | Raipur, India
Department of EECS
Cum. GPA: 9.11

Activity

OPENLAKE

| Coordinator & Mentor
May 2022 – Present
The club building OSS @ Bhilai

DEVELOPER STUDENT CLUBS

| Core Member
Jan 2022 – Present
The Google Developer's Club, IIT Bhilai

DE.CI.PHE.RED LABS |

Researcher
Feb 2022 – Present
Crypto Lab @ IIT Bhilai

TINKERING LAB | Founding

Core Advisor
Jul 2021 – Present
Student Run Tinkerers Lab @ IIT Bhilai

DUGC, IIT BHILAI | Student

Representative
May 2022 – Present
UG Student Representative for Dept. of EECS @ IIT Bhilai