Abhinav Patel

Pre-final year Undergraduate

Department of Computer Science & Engineering

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EDUCATION

B.Tech (Computer Science & Engineering)
Ajay Kumar Garg Engineering College
2019 - Present *8.4 CGPA*

I.S.C. (XII)
St Basil's School, Basti
2018 *92.0%*

I.C.S.E. (X)
St Basil's School, Basti
2016 *87.6%*

WORK EXPERIENCE

Intern
Hindi Sahitya Sabha (HSS) IIT Kanpur
06/2021 - 07/2021

Achievements/Tasks

- Used **Php** and **Mysql** to create hindisahityasabha.in website and used Bootstrap for grid system to make responsive UI/UX
- Added the feature of **Newsletter, Blog submission, Search Box, Menu, Linktree** and **Category** for Blogs
- Implemented **Dark-mode** using invert css declaration and **Sitemap** by creating a php script to increase SEO of website
- Used Jquery and ajax for asynchronous implementation of **Like-Button** and used Phpmailer library to create a Mailer
- Implemented **Pagination Algorithm** and prevented chances of SQL injection by sanitizing and validating the incoming data
- Created **Admin Panel** and provided the facility on the panel for adding authors, blogs, categories and to send mails

Intern
Ideadunes
06/2020 - 08/2020

Achievements/Tasks

- Converted given PSD (Photoshop Document) files to HTML and CSS files to create frontend
- Created CRUD API in PHP that was incorporated into Ideadunes CRM (Customer Relationship Management)

ACHIEVEMENTS

First rank in R3CURSION, the Coding Contest, organized by Team Conatus AKGEC

First rank in Internal Hackathon Phase-1, the Coding Contest, organized by Programming Club AKGEC

Participated in Recruitment Drive of 6 societies and cleared technical round of all them and personal interview of 3 of them

SKILLS

C/C++ | JAVA | Python | PHP | HTML | MySql | Javascript | CSS | MATLAB | Git

PROJECTS

TreeCount || Self-Project (04/2021 - 05/2021)

- Worked in a **team of 3 members** to **count the number of trees** in a given RGB image using Python and labelled dataset
- Designed the FrontEnd on Figma and created it using HTML, CSS, Bootstrap and its Backend on Python Framework Flask
- Extracted features such as crown of tree using local maximum (LM) filter and radius using gradient descent
- Built a **SVM Linear model** and obtained testing accuracy of 85.1% and improved it to 86.3% using SVM Polynomial model
- Improved the testing accuracy of SVM Polynomial model from 86.3% to 87.5% using SVM RBF (Radial Basis Function) model
- Aim to boost the obtained accuracy using **Random Forest (RF)** instead of Support Vector Machine (SVM) algorithm

SHELP(Student Helping and E Learning Program) || Project Under Prof. Priyanka Upadhyay (10/2020 - 11/2020)

- Worked in a team of 2 members to develop an **e-learning platform** for students and teachers using Android Studio and Java
- Teacher can add course material using SHELP-Teacher App and User can access course material using SHELP-User App
- Used libraries **Retrofit, Picasso** and **AndroidX** for asynchronous data transfer, loading images and recyclerview respectively
- Created the Backend using Nodejs and MongoDB and used as REST API to send and receive data to and from both apps.

Sanrakshan || Smart India Hackathon (SIH) (12/2019 - 02/2020)

- Worked in a team of 2 members to develop a virtual fencing system for **protection of crops from wild animals**
- Using **NodeMCU**, programmed the kit to detect intrusion and send a sms to farmer using **GSM Sim900A module**
- Used **LDR Sensor** and Lasers to detect the intrusion and applied various researched logic to make it more accurate
- Presented paper on the project in National Conference -Mechanical and Automation Engineering (MAAE-2020)

ISC Computer Scorer || Self-Project (08/2017 - 01/2018)

- Developed an exam preparation app using android studio with **JAVA** for ISC Computer Science students
- Implemented a PDF viewer in the app by adding android-pdf-viewer:2.8.2 dependency to the Gradle build so as to facilitate viewing of previous year question papers and sample question papers within the app

COURSES

Data Structure

Discrete Structures & Theory of Logic

Theory of Automata & Formal Languages

Microprocessor

Operating Systems

Numerical Computation

Data Science for Engineers