SATVIK TIWARI

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GitHub: github.com/satviktiwari Coding Profiles: Click-Here
Certifications: Click-Here

Education

- **RV College of Engineering** Bangalore, India
  Bachelor of Engineering - Electronics and Communication; CGPA: 8.85 *August 2019 - July 2023*
  Courses: *Data Structures and Algorithms, Database Management System, Computer Networks, Signal Processing and Machine Learning*

Experience

- **Kylo Apps** Remote
  React Developer Intern *Jan 2022 - Mar 2022*
  - **Work**: Worked on the development of UI components for React Applications. Built reusable UI components for multiple Web Applications and worked on the re-building and functional modifications of existing Applications.
- **Wipro-IISc Research and Innovation Network** Bangalore, Karnataka
  Software Development and Machine Learning Intern *Sep 2021 - Feb 2022*
  - **Work**: Worked on the development of Control Systems for Autonomous Vehicle. Developed a Virtual Simulator to simulate car controls using the keyboard. Developed ML-powered software tool to generate collision free Optical Flow Path for Autonomous Vehicles using OpenCV.

Projects

- **FRAMEWORK FOR CCTV STORAGE OPTIMIZATION**: Developed an algorithm and website to optimize the storage space of CCTV recordings using the YOLO-v3 algorithm and OpenCV library by removing the redundant CCTV footage frames having Euclidean distance lesser than a threshold value. The algorithm efficiently reduced the storage space by 76% of the existing space without any compromise on the quality of the recordings.
  Tech: HTML, CSS, JavaScript, Python, Firebase, OpenCV
  GitHub Repository: Click Here Live Deployment: Click Here
- **SAG MEASUREMENT AND CIRCLE FITTING ALGORITHM**: Programmed an Algebraic Circle Fitting Algorithm for sag measurement in pipes and fuel rods using Image Analysis of diffracted laser beams. Developed program for sag measurement with respect to the slope of coordinates of the laser beam and the output screen
  Tech: C++, Python, MATLAB, Image, OpenCV
  GitHub Repository: Click Here
- **SUS MAFIA**: Developed a platform for Sus Mafia NGO to recruit volunteers. Incorporated user-side & company-side registration, candidate profile viewing feature, real-time chat application and candidate leader board functionality in the application. Added blog writing feature in the application. The project was awarded Runner-Up position in JPMorgan Chase & Co. Code for Good 2022 event.
  Tech: HTML, CSS, JavaScript, React JS, Node JS, Express, MongoDB, Firebase
  GitHub Repository: Click Here
- **COVID DETECTION TOOL**: Developed a website for symptoms-based COVID detection and apython application for chest x-ray scan-based COVID detection. Used CNN algorithm for Image Processing of x-ray scan. Used Naïve Bayes classifier for symptoms-based detection and programmed in JavaScript.
  Tech: HTML, CSS, JavaScript, Python
  GitHub Repository: Click Here Live Deployment: Click Here

Skills Summary

- **Programming Languages**: C, C++, Python
- **Web Development**: HTML, CSS, JavaScript, ReactJS, NodeJS, Express
- **Database**: MySQL, MongoDB, Firebase
- **Miscellaneous**: Git, GitHub, Netlify, Latex, VS Code
- **Soft Skills**: Problem Solving, Design Thinking, Public Speaking, Team Work, Leadership, Decision Making

Programming Profiles

- LeetCode: 3-star profile, 1592 rating (max), 4 batches earned, 600+ problems solved with nearly 70% accuracy.
- Geeks for Geeks: 4th rank in RVCE GFG Portal among 3000+ coders, 600+ problems solved, 1750 GFG Score.
- CodeChef: 3-star profile, 1693 rating, secured 130 rank in CodeChef Long Challenge 2022 among 15852 participants.

Honors and Awards

- Runners-Up at Code for Good-2022 hackathon organized by JP Morgan Chase & Co. (June 4-5, 2022)

Certifications

- Python Data Structures (Coursera)
- Problem Solving Basic and Intermediate (HackerRank)
- The Joy of Computing using Python (NPTEL)
- SQL Programming (HackerRank)