

# Nirbhay Kumar

📍 Vellore Institute of Technology, Vellore

✉ [nirbhaykumar5572@gmail.com](mailto:nirbhaykumar5572@gmail.com)

🌐 [Linkedin/Nirbhay](https://www.linkedin.com/in/Nirbhay)

👉 [LeetCode/Nirbhay](https://leetcode.com/Nirbhay)

🔗 [GeeksForGeeks/Nirbhay](https://www.geeksforgeeks.com/Nirbhay)

☎ +91 9936357920

🐙 [GitHub/Nirbhay](https://github.com/Nirbhay)

🐦 [Twitter/Nirbhay](https://twitter.com/Nirbhay)

👨‍🍳 [CodeChef/Nirbhay](https://www.codechef.com/Nirbhay)

🇮🇳 [CodeForces/Nirbhay](https://www.codeforces.com/Nirbhay)

## SKILLS

Programming : C++, Python, Competitive programming

Web Dev: HTML, CSS, Javascript, Express.js, Node.js, ReactJs, MongoDB

Data Science : NumPy, Pandas, Matplotlib, Sklearn, ML, ANN, Flask Applications

Tools : Github, VScode, Clion, Spyder, Jupyter, Canva

Soft Skills : Communication, Delegation, Leadership, Problem Solving, Team Work

## WORK EXPERIENCE

06 / 2022-09 / 2022 IOT AI research Intern - IoTAGI

- Conduct research on previous experiments in various areas
- Contributing to evolution of product architecture

12 / 2020 -12 / 2022 GauthMath Expert - Online Problem solving

- Solves unsolved math questions
- Clear problem solving doubts

02 / 2022-01 / 2023 Board of Directors - UDDESHYA NGO

- Delegation, Organizing mega sessions, events, educational drives.

12 / 2021 -12 / 2022 Technical Head - IEEE Robotics and Automation Society

- Take technical sessions for juniors
- Make project teams and delegate work
- Organize events and hackathons
- Made a website for the club including firebase for backend.

09 / 2021-12 / 2021 GirlScript Winter of Contributing (GWO'C'21)

- Open source contribution aiming to create the world's largest multilingual repository.
- Contributed in Frontend web dev, Competitive programming and Data Structure and Algorithm domain
- Learnt a lot about open source project

## EDUCATION

2020 – present Bachelors in Technology (ECE) - Vellore Institute of Technology, Vellore

- 100% Scholarship by Shiv Nadar Foundation
- CGPA - 8.83

2013 - 2020 VidyaGyan School, Sitapur.

- 12<sup>th</sup> Grade – 96 %
- 10<sup>th</sup> Grade – 97 %

## PROJECT

Web Development Projects:

- IEEE IAS and IEEE RAS club Website

A full-stack website made with HTML, Javascript, Express, NodeJs,, MongoDB, CSS and Bootstrap.

- CovaDolOut

Made this for efficient distribution of vaccines during pandemic times.

- **Blog Website**  
Blog website using MongoDB, Express and Node Js in Backend.

## Machine Learning Projects:

- **Status Detector**  
Using TensorflowLite and Neural Networks to classify the status of any machine i.e Idle, Light load, Heavy load. This project basically runs on microcontrollers, taking ML at edge !
- **MedCare**  
Application uses parent's medical history and records, to predict the probability of various diseases in their children, providing the parents with early information for appropriate medical support required since childrens are not expressive about the problems they have built with Flask, ML, Web Technologies.
- **IPL Data Analysis:**  
Using pandas, numpy, seaborn and matplotlib, analyzed 10 year of IPL data

## Other Hobby and Hackathon Projects :

1. Movie Recommender System
2. To Do List
3. Hand tracking using blender and IMUs.
4. Smart Garbage accumulations finding using ultrasonic, ladar and Machine learning in oceans

## EXTRACURRICULARS

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### CLUBS AND CHAPTERS:

- IEEE IAS , IEEE RAS, IEEE PCS, UDDESHYA NGO

### VOLUNTEERING EXPERIENCE

- Campus Ambassador at Society of Artificial Intelligence.
- Peer Educator for UDDESHYA NGO.
- Event organizer

## ACHIEVEMENTS

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- Top 10 District topper in 10 th and 12th class.
- Full scholarship from class 6 th to 12th (Boarding School).
- Full Scholarship for Graduation (B.Tech)
- Jee Mains percentile - 97.5%
- Codechef 3 Start and Codeforces Pupil rated competitive programmer.
- LeetCode - 1777 (Contest Rating)
- BIDFEST Make-A-Thon'23 Winner
- Select Hackathon - Top - 12
- Equinox Hackathon Finalist
- Optum Hackathon SemiFinalist
- Completed Hacktoberfest Open source challenge
- Google KickStart Coding competition - 3585 (Global Rank)
- Solved 1000 plus coding questions across platforms

## COURSES

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- Complete Web Development Bootcamp 2021 by Angela yu.
- 100 Days of Machine Learning
- Machine Learning by ShaShawnHymel and Alexandreir Ujala on Coursera.
- Programming Internet of Things by Ian Harris on Coursera
- Basics of Cloud Computing on Coursera
- Mastering Data Structure and Algorithm on Udemy
- Python- Basic to Pro on Udemy
- Foundation AI course by NASSCOM