

Subhash Kumar

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Education

Veltech University

- Bachelor of Technology (B.Tech.) in Electronic and Communication Engineering
- GPA 7.64

Chennai
2022 – Present

Daffodil Convent School (BSEB), 12th

- 60%

Bihar
2018 – 2019

Daffodil Convent School (CBSE), 10th

- 64.4%

Bihar
2020 – 2021

Skills

Programming Languages: Python, C

IoT Platforms & Tools: Arduino, Firebase, ESP32, Node MCU

Development Tools: MS Word, MS Excel, Visual Studio Code, Google Colab

Others: Prompt Engineering, Serial Communication, 3D Modeling, Prototype Designing, Project Management, Presentation

Coursework: Embedded Systems, Data Structures, IoT Systems, Communication Engineering, Machine Learning Basics, Python Programming

Projects

Hydro Species Optimizer (HSO)

Tech stack : Python, Arduino, Firebase, Sensors.

- Developed an IoT & LLM-powered system to monitor water quality parameters (pH, TDS, temperature, turbidity) for aquaculture optimization.
- Automated data reading and provided actionable insights to farmers, reducing manual sampling by 80%.

Aqua Sense Analyzer (ASA)

Tech stack : Python, Arduino, TDS/PH Sensors.

- Created a compact domestic-use IoT device for analyzing river water quality and detecting pollutants.
- Real-time analysis and alert generation ensured household safety.

Robotic Vacuum Cleaner

Tech stack : Arduino, IR Sensors, Python Logic Simulation.

- Built a smart robotic vacuum using IoT and AI for obstacle avoidance and automated cleaning.

Certifications

- AI and ChatGPT – Be10X
- Project Management – Learntube
- Paper Presentation – Inter-College Competition
- Prototype Presentation – Project Expo
- Communication & Group Discussion – TCS iON
- Idea Presentation – Providence Leap Ideathon

Extracurricular Activity

- Video Editing
- Poster Designing
- Chess Player

Languages

- English
- Hindi