

Subhash Kumar

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Portfolio

Summary

Python Developer skilled in Internet of Things, Python programming, Embedded Systems, Frontend development, 3D Modelling, Arduino development, and AI prompting. Passes hands on experience in machine learning basics, automation projects and 3D prototyping. Known for excellent presentation skills, a fast learning mindset and a passion for innovation.

Education

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology <i>B.Tech in EElectronic and Communication Engineering, 7.5 CGPA</i>	June 2022 – June 2026
S.N. Sinha College, Warisaliganj <i>BSEB Class XII, 60% Aggregate</i>	April 2020 – May 2021

Technical Skills

Programming Languages: Python, C.
IoT Platforms & Tools: Arduino, Firebase, ESP32, Node MCU.
Development Tools: MS Word, MS Excel, Visual Studio Code, Google Colab, GitHub, Blender 3D.
Soft Skills: Communication, Team Leading, Project Management, Presentation.
Other Skills: Prompt Engineering, 3D Modeling, Prototype Designing, 3D Animation.

Extracurricular Activities

Deloitte Australia – Data Analytics Virtual Experience (Forage) ([Certificate](#))

- Completed a Deloitte job simulation focused on data analysis and forensic technology.
- Created an interactive data dashboard using Tableau for business insights.
- Utilized Excel to classify data, perform analysis, and draw actionable conclusions.

Poster Designing

- Experienced in designing creative and impactful posters using modern graphic design tools.

Chess Player

- Strong strategic thinking and problem-solving skills developed through competitive and casual chess playing.

Projects

Hydro Species Optimizer ([Link](#))

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

Aqua Sense Analyzer

- Created a compact domestic-use IoT device for analyzing river water quality and detecting pollutants using **Python, Arduino, Sensors, HTML, CSS and JavaScript**.
- Real-time analysis and alert generation ensured household safety.

Certifications

Python using AI ([Certificate](#))

AI for Techies

- Learned Python programming concepts and AI integration techniques.

Sensors and Actuators ([Certificate](#))

NPTEL

- Studied working principles and applications of various sensors and actuators.

Project Management, Communication & Group Discussion ([Certificate](#))

TCS iON

- Learned project planning, execution, monitoring skills, Email Writing professional communication and teamwork.

AI for Dynamic Drone Technology ([Certificate](#))

Vel Tech

- Gained knowledge in applying AI for autonomous and adaptive drone systems.

Achievements

- Led a 3-members team to the Participation of **Providence Leap Ideathon 2024**.([Certificate](#))
- Presented technical paper at technical symposium **DEVXPO 2024** at Sri Ram Engineering College.([Certificate](#))
- Showcased working prototype in a project exhibition **Project Expo 2025**, Vellamal Institute of Technology.([Certificate](#))