Subhash Kumar

subhashbar@gmail.com   GitHub   LinkedIn   +91-7250491204   Portfolio

Summary

Python Developer skilled in Internet of Things (IoT), Python programming, Embedded Systems, Frontend Development, 3D Modelling, Arduino development, and AI prompting. Possess hands-on experience in machine learning, automation projects, and 3D prototyping. Known for excellent presentation skills, quick learning ability, and a passion for innovation.

Education

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology   June 2022 – June 2026
B.Tech in Electronic and Communication Engineering, **7.5 CGPA**

S.N. Sinha College, Warisaliganj   April 2020 – May 2021
Senior Secondary (Class XII), BSEB **60% Aggregate**

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 Internat of Things & Large Language Model - powered system to monitor water quality parameters (pH, TDS, temperature, turbidity) for aquaculture optimization using **Python**, **Arduino**, **Firebase**, **Sensors**, **Webpage**.
- 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**,Velammal Institute of Technology.(Certificate)