Sandeep Tripathi

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PROFILE SUMMARY

An ECE student who is passionate about learning, experimenting, and consistently improving. Committed to delivering excellence and evolving with every challenge.

EDUCATION

HKBK College of Engineering CGPA : 8.13
Bachelor of Engineering in Electronics and Communication *2021 – 2025*

Gnana Priya PU College Percentage : 97
PCMC *2019 – 2021*

JupiterSchool Percentage : 94
SSLC *2018 – 2019*

INTERNSHIPS

- **ComedKares Innovation Hub** — Intern, Bengaluru *Oct 2023 – Nov 2023*
  - Developed an automatic pill dispenser with dosage reminders and customizable settings.

- **Innovation, Incubation and Entrepreneurship Cell** — Intern, Bengaluru *Aug 2022 – Sept 2022*
  - Created a prototype addressing real-world challenges, praised by mentors and attended various workshops.

PROJECTS

Alcohol Detection and Engine Locking System / *Arduino, IoT, Digital Electronics* May 2024 – Aug 2024
- Built a hardware system using Arduino to detect alcohol consumption and automatically lock the vehicle engine to prevent drunk driving.
- Developed a voice-controlled assistant similar to JARVIS using Python for basic automation tasks.

Sensor-Based Smart Surveillance Jacket / *ESP32, ThingSpeak, HTML, CSS* Sep 2024 – Present
- Developing a wearable jacket for patient health monitoring that collects sensor data and displays real-time reports on a web dashboard.

DeepBook & To-Do List App / *HTML, CSS, JavaScript, Go, ReactJS, PostgreSQL* Jan 2025 – Mar 2025
- Built "DeepBook," a social platform clone allowing user interaction, posts, and comments.
- Created a responsive To-Do List web app with task creation, deletion, and completion tracking.

Personal Portfolio Website / *HTML, CSS* Jun 2024 – Jul 2024
- Developed a responsive personal website to showcase projects and skills.
- Focused on clean UI design, mobile responsiveness, and smooth navigation experience.

Fitness Dashboard / *HTML, CSS* Feb 2024 – Apr 2024
- Designed a dashboard to monitor fitness metrics, focusing on a user-friendly and visually engaging interface.

TECHNICAL SKILLS

Languages: C Programming, C++, Python, Verilog, Matlab, Embedded C, SQL, Java Script, Power BI, Golang
Software tools: Arduino IDE, Electric Binary, Xilinx Vivado design suite, Multisim, Matlab IDE, AIML, Excel
Miscellaneous: IoT, Digital Electronics, Computer Networks, System Verilog, Signal Processing, HTML, CSS, Arduino UNO, ESP32 Microcontroller.
Management Skills: Team collaboration, Problem solving, Adaptability and Leadership

CERTIFICATIONS

Network Security Course by Great Learning Academy
Python Bootcamp by SARA ACADEMY in June 2024
7Days bootcamp with DevTown and MSME on C and DSA in February 2024
AIML Certification Course on Simpli-Learn
Participated in "The Realm of IOT applications and beyond" from 7th to 11th Feb 2024 by Robo Ram Education

HACKATHONS

- Participated in **IBM DATATHON 2024.**

- Participated in **GENESIS Hackathon** by *The Product House X SRMIST*, Jan 30–31, 2024.

- Participated in **MOVE IT WITH APTOS Hackathon 2024.**

- Participated in **Bharatiya Antariksh Hackathon 2025** By ISRO.

HOBBIES & INTERESTS

Sports: Cricket, Badminton, Table Tennis, Kabaddi
Music: Guitar, Tabla, Flute, Singing
E-sports: BGMI, Call of Duty (COD)

ACHIEVEMENTS

- **Badminton:** State Level Player – 4th *Place*

- **Kabaddi, Throwball:** District Level Player

- **JEE Mains:** Secured **83.68%**

- **College Level:**

    - 2nd Place – Non-Classical Music
    - 1st Place – Essay Writing
    - Won 3 Consecutive College Quiz Competitions

- **RSS:** District Student Union Head