

Subham Kumar



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OBJECTIVE

Driven B.Tech ECE graduate with strong skills in Python, C, and C++, and hands-on experience in Machine Learning and embedded systems. Skilled in problem-solving and algorithm development, with a passion for building innovative software solutions.

EDUCATION

- Bachelor of Technology (B.Tech), Electronics & Communication Engineering
Government Engineering College, Vaishali | 8.42 CGPA
June 2025
- Intermediate of Science
A.N. College, Patna | 81.4%
April 2021
- Matriculation
S.H.S Saraswati Dham, Basuhar Punpun | 78.8%
May 2019

INTERNSHIP & TRAINING

SAP ABAP Trainee [🔗](#)

| Jun 2025 - Jul 2025

BIPARD Skill Park, Patna

Certification: [SAP Certified Associate - Back-End Developer - ABAP Cloud](#)

- Achieved **SAP ABAP Cloud global certification** and earned the “*ABAP Cloud Backend Developer*” badge under SEED Infotech Ltd.
- Proficient in **Data Dictionary, modularization, Smart Forms, RICEFW components, and custom report development.**
- Applied **OO-ABAP, CDS Views, and AMDP** to design efficient and scalable business solutions.
- Implemented **enhancements and performance tuning** using User Exits, BAdIs, SAP Debugger, and analysis tools

Python & Machine Learning Intern [🔗](#)

NIELIT, Gorakhpur

| Nov 2024 - Dec 2024

- Built and optimized machine learning models using supervised and unsupervised techniques.
- Applied data preprocessing and visualization using Pandas, Matplotlib, and Seaborn.

Salesforce Developer Intern [🔗](#)

Salesforce

| Dec 2023 - Jan 2024

- Developed and customized Salesforce applications using Apex, Visualforce, and Lightning Components.
- Implemented automation flows, workflows, and database management models to streamline business processes.
- Completed multiple Salesforce Superbadges, demonstrating expertise in cloud computing, CRM, and backend development.

Embedded Systems Intern

Internshala

| Feb 2023 - Apr 2023

- Programmed microcontrollers and designed embedded systems using C/C++ and Arduino.
- Integrated sensors and modules for real-world applications with a focus on system reliability.

PROJECTS

Vehicle Record System — Computer Vision Based Smart Access Control

- Designed a computer vision-based system for automated vehicle recognition and access control.
- Implemented license plate detection using Python, OpenCV, and machine learning algorithms.
- Increased recognition accuracy by optimizing preprocessing and character segmentation techniques.

Adaptive Differential Notch Filtering for Dynamic Interference Cancellation in Cognitive Radio Networks

- Designed and implemented an adaptive notch filtering technique to dynamically suppress interference in cognitive radio systems.
- Simulated the system using MATLAB, achieving enhanced signal clarity and improved spectral efficiency under varying interference conditions.

MathWorks MiniDrone

- Built an autonomous drone using MATLAB & Simulink to follow a predefined path and perform precise landings.
- Showcased skills in control systems, drone navigation, and simulation during the MathWorks MiniDrone Competition 2024 at IISc Bangalore.

SCHOLASTIC ACHIEVEMENTS

- Secured 1st rank in **1st & 2nd semesters; awarded Merit Certificate (ECE)**.
- Ranked **25th nationwide** in **e-Yantra Robotics Competition 2023**, IIT Bombay.
- Finalist (Top 10) in **MathWorks MiniDrone Competition 2024, IISc Bangalore**.
- **2nd place** in Internal Hackathon for **Smart India Hackathon (SIH)**, institute level.

POSITIONS OF RESPONSIBILITY

- Core Member, **Technical and Innovation Club, GEC Vaishali**.
- Led the **team of 4 members** in **SRIJAN 2023, Intra-College Technical Competition**.

SKILLS AND INTERESTS

Programming Languages: C, C++, Java, Python, MATLAB, SAP ABAP

Frontend Technologies: HTML5, CSS3

Tools & Technologies: Git, GitHub, Proteus, Arduino, MATLAB, Computer Vision, S/4HANA

Soft Skills: Leadership skills, Critical thinking, Data-driven decision making, Problem solving.

CERTIFICATIONS

- **Grade Certificate – GADP Training Program**, organized by ER.
- **Cybersecurity Essentials**, Cisco Networking Academy.
- **NPTEL:** Database Management System, Welding Application Technology, Developing Soft Skills & Personality.
- **IIT Bombay Spoken Tutorial:** HTML, Programming in C/C++, Arduino.

EXTRA-CURRICULAR ACTIVITIES

Category	Achievements
Technical	<ul style="list-style-type: none">• Completed 7-day workshop on “Intelligent Wireless Connectivity for Post 5G Era” (SERB Karyashala, IIT Patna).• Attended 2-day AI & ML workshop by Edufabrica (E-Cell IIT Patna).• Participated in 4th National Quality Convention 2025 on "Resilient and Sustainable Growth".
Cultural	<ul style="list-style-type: none">• Secured 3rd position in Drama at Extravaganza, Inter-College Cultural Fest, GEC Vaishali

LANGUAGES

Hindi, English, Japanese (Basic N5)