

# Avinash Goyal

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## OBJECTIVE

Strong foundation in frontend development, computer vision, and robotics. Passionate about building real-world solutions using technologies like React.js, OpenCV, and embedded systems. Eager to contribute to innovative projects where I can apply both my technical skills and creative problem-solving to deliver impactful and user-centric experiences.

## TECHNICAL SKILLS

Programming Languages	C, C++, Python, MATLAB, ABAP
Web & Frontend Development	HTML5, CSS3, JavaScript, Bootstrap, React.js
Databases	SQL, Firebase, S/4 HANA
Tools	Git, Docker, Pycharm, Gazebo, ROS, SAP
Soft Skills	Critical Thinking, Data-Driven Decision Making, Project Ownership, Team Collaboration

## EDUCATION

<b>Bihar Engineering University</b> B.Tech in Electronics & Communication Engineering	Dec 2021 - June 2025
<b>Thakur Prasad Singh College, Patna</b> Senior Secondary (Class XII <sup>th</sup> )	May 2019 – Mar 2020
<b>Green Field Knowledge City</b> Secondary (Class X <sup>th</sup> )	March 2018

## EXPERIENCE

### SAP ABAP Trainee | BIPARD PATNA

Jun 2025 - July 2025

- [SAP Certified Associate - Back-End Developer - ABAP Cloud](#)
- Certified in SAP ABAP Cloud, with strong understanding of **reports, Data Dictionary, modularization, and ABAP Objects**.
- Worked on **RICEFW** developments using the **ABAP** programming language.
- Developed complex reports tailored to specific client requirements.
- Proficient in creating technical customizations including **tables, search helps, structures, and other Data Dictionary (DDIC) objects**.
- Analyzed user requirements and delivered effective technical solutions.
- Resolved technical issues using the SAP Debugger and standard troubleshooting tools.
- Focused on hands-on implementation, debugging techniques, and SAP standard development practices.
- **BIPARD Skill Park, Patna** (Training by **Seed Infotech**, an SAP Partner)



### Machine Learning Intern | NIELIT Gorakhpur

Dec 2024 - Jan 2025

- Explored **supervised learning (classification & regression)** and **unsupervised learning**
- Focused on **model selection, bias-variance trade-off, and performance optimization**
- Learned **data visualization techniques** for real-world machine learning applications

### Project Intern | Dept. of Civil & Infrastructure, IIT Jodhpur

May 2024 – Jul 2024

- Worked on a **Traffic Flow Simulation Model** for optimizing traffic management and safety.
- Calculated key traffic safety metrics including **Time to Collision (TTC), Deceleration to Safety Time (DST), Post Encroachment Time (PET), and Gap Time (GT)**.
- Collaborated with a multidisciplinary team to simulate traffic scenarios and assess safety at intersections.
- Supervised by the Associate **Prof. Dr. Ranju Mohan**

### Salesforce Developer Intern

Dec 2023 - Jan 2024

- Learned **Salesforce fundamentals, organizational setup, and process automation**.
- Developed skills in **Apex programming, debugging, and Lightning Web Components (LWC)**.
- Gained experience with **VS Code, CLI setup, and API integrations**.
- Achieved Super Badges: **Apex Specialist, Process Automation Specialist, and Developer Super Set**.





### MathWorks Virtual Intern

Jul 2023 - Sep 2025.

- Specialized in **MATLAB, image processing, and signal processing**.
- Gained experience in **machine learning and deep learning** workflows.
- Applied skills to solve **real-world engineering** challenges.

## CERTIFICATIONS

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- **SAP Certified Associate - Back-End Developer - ABAP Cloud** 
- **NVIDIA Certified – Fundamentals of Deep Learning** (NVIDIA) 
- **Career Essentials in GitHub – Professional Certificate** (LinkedIn Learning & GitHub) 
- **MathWorks Virtual Internship Program** (AICTE NEAT)
- **CPA – Programming Essentials in C++** (Cisco Networking Academy)
- **Embedded Systems** (Internshala)
- **IT Essentials** (Cisco Networking Academy) 

## ACHIEVEMENTS

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- **Achieved Finalist** status in the **MathWorks Minidrone Competition 2024** at **IISc Bengaluru**, a national robotics challenge, by designing and implementing a **robust autonomous navigation system** for a minidrone using **MATLAB** and **Simulink**.
- Selected to participate in the **SERB Workshop on 'Intelligent Wireless Connectivity for Post 5G Era'** at **IIT Patna**, gaining specialized knowledge in **advanced wireless communication technologies**, including **6G** concepts.

## PROJECTS

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### AI-Powered Recruit: Intelligent Job Candidate Screening

- Developed a **multi-agent AI system** to automate **CV parsing**, **JD summarization**, skill-based matching, and candidate shortlisting using Generative AI.
- Built a GUI with **Tkinter**; integrated **Ollama (Mistral LLM)** for CV and JD processing; implemented **local LLM** for data privacy.
- Key features include configurable thresholds, CSV reporting, and simulated interview request generation.
- **Tech Stack: Python, Ollama, PyMuPDF, Pandas, Tkinter.**
- **Impact:** Streamlined recruitment process, reduced manual effort, and improved screening speed and accuracy.

### Vehicle Speed Estimation and Traffic Safety Metrics Application

- **Overview:** Real-time vehicle detection and safety metrics calculation using video processing. YOLO for vehicle classification, **TTC, DST, PET, GT metrics**.
- **Technologies:** Python, OpenCV, YOLO, NumPy, Supervision (sv), Pandas.
- **Applications:** Traffic safety analysis, accident prevention, and real-time vehicle tracking.

### YouTube Video Frame Extraction and PDF Generator

- **Overview:** Flask web app to extract unique frames from YouTube videos and generate PDF reports with timestamps.
- **Technologies:** Python, Flask, yt-dlp, OpenCV, SSIM, FPDF, Pillow.

### Mars Rover Opportunity

- **Overview:** Prototype Mars rover for planetary exploration, focused on mobility, obstacle detection, and remote operation.
- **Team Role:** Led design and development team.
- **Key Features:** Mobility, obstacle detection, remote operation, integrated electronics & communication systems.

## EXTRA ACTIVITIES:

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### Student Coordinator – Training & Placement Cell

*Government Engineering College, Vaishali | Sep 2024 – Present*

- Coordinated recruitment drives, pre-placement talks, and training sessions.
- Acted as liaison between students and recruiters to ensure smooth placement processes.
- Contributed to skill development initiatives and student career support.

### Club Lead – Technical & Innovation Club

*Government Engineering College, Vaishali | Jan 2024 – Present*

- Organized workshops, expos, and hackathons to promote hands-on learning and innovation.
- Led interdisciplinary teams on robotics and automation projects.
- Mentored juniors in Arduino, embedded systems, and Python.
- Regularly updated students with the latest technical opportunities, competitions, and learning resources.

## HOBBIES:

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- **Tech Blogging & Learning** – Stay updated with emerging technologies, especially in AI, drones, and computer vision.
- **Reading Books**

## LANGUAGES:

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- **English**
- **Hindi**
- **Japanese (N5)**