

# Abhishek Atole

## Software Developer

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### SUMMARY

Skilled in **C, C++, Python, IoT, and embedded** systems with hands-on experience in developing projects like **Automatic Floor Cleaning Robots and Prosthetic Hand Gesture Classification**. Proficient in automation testing, debugging, **Agile**, and **Git**. Strong in **team coordination, project management**, and networking. Passionate about **optimizing software** solutions and enhancing system performance in **Linux** and Windows environments.

### TECHNICAL SKILLS

**Programming Languages:** ANSI C, C++, Python

**Web Development:** HTML, CSS

**Embedded Systems:** IoT, Arduino, Embedded C

**Operating Systems:** Linux, Windows NT

**Software Development Methodologies:** Agile, Waterfall

**Testing & Automation:** Automation Testing, Debugging, Software Optimization

**Version Control & DevOps:** Git, Docker, GitHub, GitLab

**Networking & Cybersecurity:** TCP/IP, UDP, Network Security

**Collaboration & Leadership:** Team Coordination, Project Management

### PROJECTS

#### Automatic Floor Cleaning Robot

January 2023-May 2023

*Technologies: Embedded Systems, IoT, Arduino, Path Planning Algorithms, Obstacle Avoidance*

- Engineered an autonomous **floor-cleaning robot** with optimized path planning, **enhancing cleaning efficiency by 30%**.
- Implemented an intelligent **obstacle avoidance** system with **98%** accuracy, reducing navigation errors by **60%** and improving operational efficiency by **25%**.

#### Prosthetic Hand Gestures Classification

August 2023-December 2024

*Technologies: Machine Learning, IoT (Python, CNNs, sEMG Signal, TensorFlow, NumPy, Pandas)*

- Developed an **AI-powered** prosthetic hand gesture classification system using CNNs, achieving a **94% precision rate**, ensuring high-accuracy muscle signal interpretation.
- Implemented data preprocessing and feature extraction, improving dataset quality by 80%, while boosting model robustness and performance.
- Integrated **IoT for real-time signal acquisition and processing**, Optimized signal acquisition and processing to improve response time and classification accuracy by 80%.

#### School Management System

February 2025-March 2025

*Software Development: C, C++, Database Management*

- Designed and deployed a **role-based** school management system, streamlining student enrollment, attendance tracking, and grade management.
- Enhanced operational efficiency by automating key administrative processes, reducing manual workload by **40%**.

### EXPERIENCE

#### Field Officer | Excel Data Operator

August 2024-November 2024

*Adarsh Gramin Vikas Sevabhavi Sanstha (Jalgaon, Shegaon, Sangrampur)*

- **Data Management:** Processed and structured large datasets in **Excel**, ensuring **99% accuracy** in documentation and submission to government offices.
- **Field Outreach & Awareness:** Led **200+ village-wide** awareness campaigns, increasing public participation in government schemes and voting rights by **65%**.
- Guided over **30,000 individuals** through government benefit application processes, achieving **100%** compliance with documentation mandates and facilitating access to essential social safety net programs.
- **Team Leadership & Coordination:** Managed 5+ teams and coordinated local authorities to ensure the efficient execution of public initiatives.

## SEMINARS & WORKSHOPS

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### Computer Fundamentals (AstroMediComp)

- Gained expertise in computer internals, booting processes, and storage devices.
- Mastered data encoding (decimal, binary, hexadecimal, octal) and CPU/GPU roles.
- Strengthened knowledge of RAM/ROM and memory management.
- Enhanced basic computer skills by 95% and overall computer knowledge by 100%.

### Multi-OS Installations (AstroMediComp)

- Increased software testing speed by virtualizing operating systems; increased speed of software testing cycles by 15% by installing and managing 3 operating systems on a single PC.

## EDUCATION

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|--|--------------------------------|
| • <b>Shri Sant Gajanan Maharaj College of Engineering, Shegaon</b><br><i>Bachelor of Engineering (Electronics &amp; Telecommunication)</i><br><b>CGPA : 6.79</b> | <b>August 2020-August 2024</b> |
| • <b>The New Era Junior Science and Arts College, Jalgaon (Ja.)</b><br><i>HSC (12th)</i><br><b>Percentage : 66.62</b>  | <b>June 2019 – March 2020</b>  |

## CERTIFICATION

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- **C Programming** | LinkedIn Learning | March 2025
- **Master C++ Programming** | Udemy | March 2025
- **Introduction to Cybersecurity** | Google, Cisco | December 2023
- **Networking Basics** | Cisco | March 2025

## LANGUAGES

- **English:** Upper Intermediate
- **Marathi:** Native/Bilingual Proficiency
- **Hindi:** Native/Bilingual Proficiency

## DISCLAIMER

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I, **Abhishek Himmatrao Atole**, declare that all the facts mentioned above are accurate, and I take full responsibility for their accuracy.

Place:

**Yours faithfully**

Date :

Abhishek Himmatrao Atole