

# AYUSH SINHA



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📍 Pilani, Rajasthan

## PROFESSIONAL SUMMARY

I am Ayush Sinha, A highly motivated and tech-driven third-year Bachelor of Technology student in Information Technology at B.K. Birla Institute of Engineering and Technology, Pilani. I am deeply passionate about Artificial Intelligence, Data Science, and Machine Learning, with a foundation in Java, Python, and MySQL. I actively pursue continuous learning and practical application through hands-on projects and technical exploration. Adept at problem-solving and logical thinking, I enjoy collaborating with like-minded individuals to build innovative solutions and stay at the forefront of emerging technologies.

## EDUCATIONAL QUALIFICATIONS

- Bachelor of Technology in Information Technology**  
B.K Birla Institute of Engineering and Technology, Pilani, Rajasthan. 2022 - Present
- Intermediate ( Bihar School Examination Board )**  
R.R Inter College, Vaishali, Bihar. 2020 - 2022
- Matriculation ( Central Board of Secondary Education )**  
Holy Cross Public School, Muzaffarpur, Bihar. 2020

## SKILLS

### Technical Skills :

- Programming Languages:** C Programming, Object-Oriented Programming (OOP) using C++, Python, Java
- Software & Tools:** Qt Designer, Visual Studio Code, Git, Anaconda, Jupyter Notebook, Spyder, PyCharm Community
- Database Management:** MySQL – Designing, managing, and querying relational databases for efficient data storage and retrieval

### Soft Skills :

- Effective Communication:** Strong verbal and written communication skills for collaboration and presentations
- Teamwork & Collaboration:** Ability to work effectively in diverse teams and contribute to collective success
- Problem-Solving:** Analytical mindset for approaching complex challenges with logical and innovative solutions
- Leadership & Initiative:** Proven ability to lead projects, make strategic decisions, and guide peers toward success

## INTERNSHIP AND TRAINING

### Summer Internship on C Programming (15 Days, In-House)

- B.K. Birla Institute of Engineering and Technology, Pilani
  - Gained foundational knowledge of C programming, covering syntax, data types, control structures, and functions.
  - Developed small projects to apply concepts such as loops, arrays, and pointers.

### Industrial Training & Internship on Programming with Python (6 Weeks, Remote)

- Internshala, Noida
  - Gained expertise in Python programming, covering fundamental to advanced topics.
  - Mastered variables, data types, control structures, and object-oriented programming (OOP).
  - Developed skills in SQLite database management, enabling efficient data storage and retrieval.
  - Built a Graphical User Interface (GUI) using PyQt, integrating front-end functionality with Python.
  - Explored the application of Python in various domains, enhancing problem-solving capabilities.
  - I completed a final project, applying all the concepts I learned to create a fully functional Python-based application.
  - Gained insights into AI in Python, understanding its role in intelligent automation and decision-making.

### Python Programming Internship (4 Weeks, Remote)

- InternPe, Jaipur
  - Selected for a focused internship on Python Programming, emphasizing core concepts and project development.
  - Strengthened proficiency in Python through weekly tasks and assignments.
  - Built multiple real-world mini-projects using Python, showcasing problem-solving and programming logic.
  - Developed the following key projects: Tic Tac Toe (Terminal-Based Game), Snake Game, Connect 4, Digital Clock (GUI)

### Core Java Development Internship (45 Days, On-site)

- Groot Software, Jaipur
  - Worked closely with the development team on real-world Java-based projects focusing on OOP, backend systems, and application logic.
  - Built robust and clean Java code while applying best practices in professional software workflows.
  - Strengthened understanding of Java programming, backend development, and software deployment cycles.
  - Improved collaboration, time management, and code optimization by working within a structured development team environment.

## CERTIFICATIONS AND WORKSHOPS

### Certifications:

- Core Java Development – Groot Software
- Python Programming – InternPe
- Programming with Python – Internshala Trainings
- C Programming – BKBIET, Pilani
- C++ Training – Spoken Tutorial Project, IIT Bombay
- Python 3.4.3 Programming – IIT Bombay
- Java Programming – IIT Bombay

### Workshops & Participation:

- **AI/ML Workshop** – Explored core concepts of Artificial Intelligence & Machine Learning, including model training and real-world applications.
- **IoTCON Workshop on IoT** – Hands-on experience with Internet of Things (IoT) technology, sensor integration, and real-time data processing.

## PROJECTS AND IMPLEMENTATION

### 1. Coffee Machine Simulator

Tech Stack: Python (OOP), HTML, CSS, JavaScript

- Designed a functional coffee machine simulation combining frontend and backend logic.
- Used Python for the backend logic, including menu handling, payments, and resource tracking.
- Built an interactive web interface using HTML, styled with CSS, and added dynamic behavior using JavaScript.
- Ensured clean code separation and intuitive user experience with modular OOP and responsive design.

### 2. Digital Clock

Tech Stack: Python, Tkinter

- Designed a real-time digital clock with a simple graphical interface.
- Implemented time display with hours, minutes, and seconds in AM/PM format.
- Enabled continuous real-time updates with a cross-platform GUI.

### 3. Snake Game

Tech Stack: Python, Pygame

- Created a classic Snake Game with real-time animations and score tracking.
- Developed collision detection, boundary logic, and food mechanics.
- Included game-over screen and replay functionality for enhanced UX.

### 4. Personal Portfolio Website

Tech Stack: HTML, CSS, JavaScript

- Developed a responsive personal website to showcase bio, timeline, and projects.
- Implemented dark/light mode toggle and modern animations.
- Used CSS Grid and Flexbox for responsive layouts across devices.

### 5. Quiz Game Web App

Tech Stack: Java, Spring Boot, HTML, CSS

- Built a quiz-based web application using a fixed pool of 25–30 static questions.
- Designed a user interface to display questions, capture responses, and show results.
- Included features like question navigation, score calculation, and clean layout.

## DECLARATION

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief. I take full responsibility for the authenticity of the details mentioned in this resume.

Place: Pilani, Rajasthan  
Ayush Sinha