



INTERNSHIP REPORT

Department of Computer Science & Engineering

Advanced Python Programming, Automation & Application Development

Organized for B.Tech CSE and CSE(AIML) Students

Internship Title	Advanced Python Programming, Automation & Application Development
Mode	Offline (On-Campus)
Organized By	Department of Computer Science & Engineering (CSE)
Resource Organization	Pragyan SmartAI Technology LLP, Bangalore
Target Audience	CSE Students (I Year)
Duration	5 Days
Date	29.06.2026 to 03.07.2026
Timing	09:30 AM to 4:20 PM (Daily)
Venue	CSE Department Laboratory-1
Number of Participants	94

1. About the Workshop

The Department of Computer Science & Engineering organized a five-day internship on **Advanced Python Programming, Automation & Application Development** in association with **Pragyan SmartAI Technology LLP, Bangalore**. The internship was conducted from **29.06.2026 to 03.07.2026** in offline mode for I Year B.Tech CSE – A students. The program focused on improving Python programming skills, automation techniques, and real-world application development through lectures, demonstrations, and hands-on practical sessions.

2. Objectives

- ☐ Learn advanced Python programming concepts.
- ☐ Understand automation using Python.
- ☐ Develop real-world Python applications.
- ☐ Improve problem-solving and coding skills.
- ☐ Gain practical experience through hands-on sessions.
- ☐ Prepare students for internships and industry projects.

3. Resource Persons

Resource Organization: Pragyan SmartAI Technology LLP, Bangalore

Trainer:

- **Mr. Mohammed Rehan** – Industry Expert, Pragyan SmartAI Technology LLP, Bangalore.
- Conducted sessions on Advanced Python Programming, Automation, and Application Development.
- Delivered theoretical concepts, live coding demonstrations, hands-on practical sessions, and guided students in developing mini projects.
- Provided career guidance and answered students' queries throughout the internship.

4. Day-Wise Schedule

Day & Date	Session Timing	Topics Covered
Day 1 29.06.2026 (Mon)	09:30 AM – 4:20 PM	☐ Introduction to Python ☐ Data Types, Variables, Operators ☐ Control Statements ☐ Functions and Modules ☐ Practical Programming Exercises
Day 2 30.06.2026 (Tue)	09:30 AM – 4:20 PM	☐ Introduction to Python ☐ Data Types, Variables, Operators ☐ Control Statements ☐ Functions and Modules ☐ Practical Programming Exercises
Day 3 01.07.2026 (Wed)	09:30 AM – 4:20 PM	☐ Advanced Python Concepts ☐ Regular Expressions ☐ Database Connectivity (SQLite/MySQL) ☐ Mini Practical Exercises
Day 4 02.07.2026 (Thu)	09:30 AM – 4:20 PM	☐ Automation using Python ☐ Web Scraping ☐ API Integration ☐ Project Development
Day 5 03.07.2026 (Fri)	09:30 AM – 4:20 PM	☐ Automation using Python ☐ Web Scraping ☐ API Integration ☐ Project Development

5. Methodology

- ☐ Interactive classroom lectures.
- ☐ Live coding demonstrations.
- ☐ Hands-on laboratory sessions.
- ☐ Group discussions and doubt-clearing sessions.

- ❑ Mini project development.
- ❑ Daily practical exercises.
- ❑ Daily Quizzes

6. Learning Outcomes

- ❑ Gained strong knowledge of Python programming.
- ❑ Learned advanced programming techniques.
- ❑ Understood automation using Python.
- ❑ Developed simple real-world applications.
- ❑ Improved debugging and problem-solving skills.
- ❑ Enhanced confidence in software development.

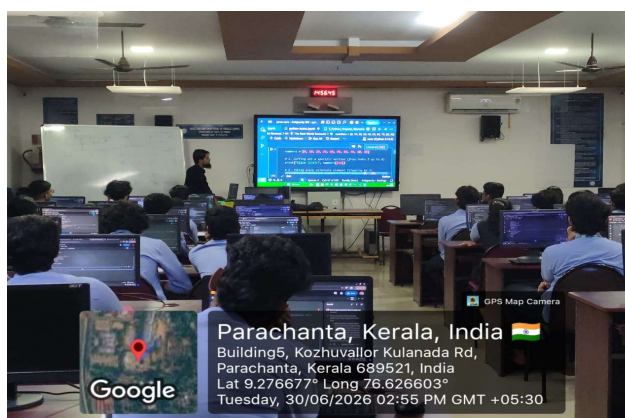
7. Participant Feedback

The participants expressed positive feedback about the internship. They appreciated the practical sessions, real-time demonstrations, and industry-oriented teaching methods. The workshop helped improve their coding skills and understanding of Python application development.

8. Conclusion

The five-day internship successfully achieved its objectives by providing students with both theoretical knowledge and practical experience in Advanced Python Programming, Automation, and Application Development. The program enhanced technical skills, encouraged innovative thinking, and prepared students for future academic and professional opportunities.

9. Photos



Faculty Advisors: Prof. Mahesh S  Prof. Aswathy R  Prof. Geethu Mohan  Prof. Jissin Kurien 	 HoD Computer Science & Engineering	 Principal
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