

CENTRE FOR
DESIGN YOUR DEGREE
UNIVERSITY OF KASHMIR

REPORT

Five-Day Bootcamp
on
“Python for Artificial
Intelligence”
held at
NIT Srg

Venue: National Institute of Technology (NIT) Srg
Dates: 6TH - 10TH oct 2025

Submitted by:
Hadiya Shafi
Aberou Kababi

A five-day bootcamp titled “Python for Artificial Intelligence” was successfully conducted at NIT Srinagar from 6th to 10th October 2025. The programme aimed at providing students with foundational and practical knowledge in Python programming and its applications in Artificial Intelligence. Students from various institutions participated in the bootcamp, including approximately 51 students from the Centre for Design Your Degree programme, University of Kashmir, who had registered individually. The bootcamp offered a platform for learning, hands-on practice, and interaction with experienced faculty members in the field of programming and AI.

Day 1: Inaugural Session

The bootcamp commenced with an inaugural session where participants were warmly welcomed. The objectives, schedule, and importance of the bootcamp were introduced, followed by a speech of Prof. Roohie Naaz – Head of the Dept of Computer Science, NIT. The participants were informed about the topics that would be covered and the hands-on sessions they would engage in over the next few days. After the opening session, students were directed to the computer lab for the first technical session, allowing them to start familiarizing themselves with Python programming basics.



Inaugural session

Resource Persons and Coordination

The bootcamp was conducted under the guidance of four experienced resource persons:

- 1.Mr. Mir Yousuf
- 2.Mr. Aamir Hilal
- 3.Mr. Aaqib Zahoor
- 4.Mr. Umar Bashir

The programme was efficiently coordinated by Dr. Saniya Zahoor, who supervised the schedule, ensured smooth functioning of sessions, and facilitated communication between the students and resource persons.

Sessions and Topics Covered

From the second day onward, the participants attended a combination of lectures and hands-on lab sessions each day. The sessions were structured to provide both theoretical understanding and practical experience. The main topics included:

- Foundations of Python programming
- Data Structure, Functional logic and Control flow
- Data handling, libraries and visualization
- AI foundations, applications and AI programming
- Python for AI applications: reasoning, game theory, MDPs and intelligent decision making

Participants were also provided with learning materials and resources, which included class notes, example codes, and references for further study.



Hands on lab

Final Day: Interaction, Q&A, and Certificate Distribution

The final day featured a question–answer session, where participants could clarify doubts and discuss topics in detail with the resource persons. This interactive session encouraged engagement and reinforced learning outcomes from the bootcamp. Following this, a valedictory session was conducted where Prof. Roohie Naaz and Dr. Saniya Zahoor addressed the participants. Certificates of participation were then distributed to all students as well as the faculty members who contributed to the bootcamp, marking the successful completion of the programme.



Certificate distribution

Conclusion

The bootcamp provided a valuable learning experience, combining theoretical knowledge with practical application. It enabled participants to gain a better understanding of Python programming, AI concepts, and relevant libraries, while also developing problem-solving and analytical skills. The sessions were highly interactive, and the provision of learning materials ensured that students could continue practicing beyond the bootcamp. Overall, the programme contributed significantly to enhancing the technical knowledge and capabilities of the participants.

