Bhoj Reddy Engineering College for Women

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Department of Information Technology

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Report on 24 hour Hackathon on "Machine Learning and AI using Python".

The IT department has conducted 24 hour Hackathon on "Machine Learning and AI using Python" for III IT A and B students during during 11th January and 12th January 2023. Total 141 students have participated in this Hackathon. The workshop and hackathon was conducted by Brainovision Solutions India, Pvt. Ltd. Brainovision Solutions India Private Limited is an organization started in 2014 which serves web solutions, software development and tech education in the corporate field. This is the place for the brands, students and faculty to find the solution for their web service requirements, Workshops, Internships, and Faculty Development Programs and for organizations to hire perfect skilled candidates. All the sessions are hands-on sessions.
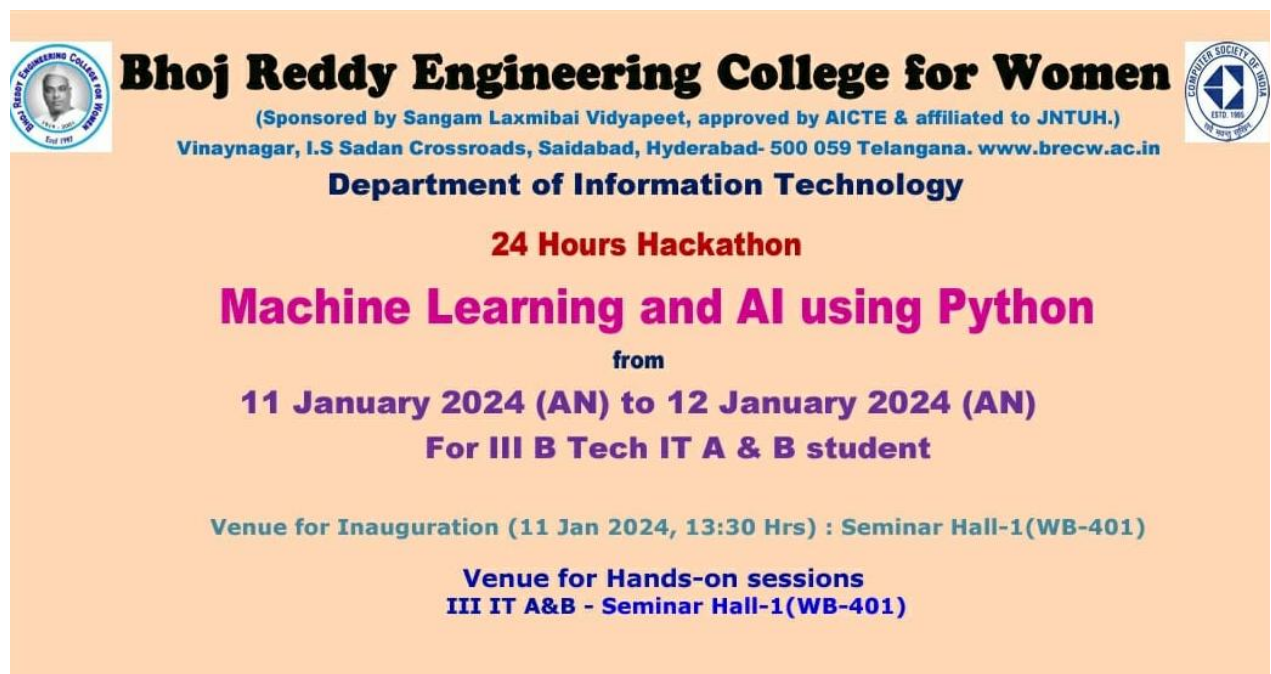

Figure 1: Hackathon Banner

The objective of the Hackathon:

The main objective of a 24-hour hackathon is to bring together individuals with diverse skills and backgrounds to collaboratively work on solving problems or creating innovative projects within a limited time frame, usually 24 hours.

Inaugural Session:

The inaugural function was started with Ms.Yasaswi Surabhi followed by at 13:30 Hrs. in the Seminar Hall - 2(WB 402). The Principal, Dr J Madhavan, and Head of IT Department, Dr C Murugamani ,also delivered their respective keynotes to the students in the inaugural session.

Figure 2: Ms. Yasaswi Surabhi, Dr J Madhavan, Dr C Murugamani and hosted by Sri Thanaya of III IT-B.

Figure 3: Dr C Murugamani addressing the gathering regarding the 24 hour hackathon.

Figure 4: Staff and students listening to the instructions regarding the following 24 hour hackathon.

Figure 5: Students noting down the main aspects of hackathon regarding the stages of hackathon.

Workshop sessions(Day-wise):

DAY-1 (11 January 2024)

Ms Yasaswi Surabhi, the resource person from Brainovision Solutions India, Pvt. Ltd.along with Mr. Nagoor , Mr. Dilip and Mr. Sukumar, dealt with the first-day session of the hackathon

The following topics were covered on the day-1:

Stage 1: Approving of problem statement:

Every team took a chit containing different domains on which we have to work on. Each team took a chit and started their first round of selection.Started research on different problems with cause and solution and the given condition is that it should not exist.

The Problems which we face :

 Whatever the problem we are taking , the mentor is rejecting if its already existing.

Stage 2: Feature engineering:

Described how to segregate the features of many features .

Stage 3: ML Algorithms deployment:

We made attempts to know which type of project we were making(classification or regression) and deployed all the algorithms respected to it.

Figure 6: Ms. Yasaswi surabhi explaining about the rules and regulations of the 24 hr hackathon.

Figure 7: Principal along with HOD IT are looking at student's projects and listening about their projects .

Figure 8: Dr M Sandhya Rani monitoring students and their projects.

Figure 9: Ms Saleha Farha exploring students ideas to do projects , and behind we can see students who are trying to convince their mentors regarding the problem statement .

Figure 10: IT Department staff made this event a huge success.

DAY-2 (12 January 2024)

The second day session of the hackathon was dealt by Ms Yasaswi Surabhi, the resource person from Brainovision Solutions India, Pvt. Ltd along with other mentors.

The following topics were covered on the day-2:

Stage 4: Evaluation metrics:

Students are asked to do the work of different algorithms prior and also to do the confusion matrix on the day of presentation.

Stage 5: Final stage-Presentation:

This is the final stage and 9 teams out of 23 teams got filtered.These teams are asked to prepare a report on their project and a power point presentation to present infront of the jury.

Figure 11: Students are very much tensed and working really hard in the last rounds of the hackathon.

Figure 12 : Students are presenting their presentations in front of the jury.

Figure 13: Dr C Murugamani appreciating the students for their endless efforts on the hackathon.

Figure 14: Ms. Yasaswi surabhi sharing her experience and announcing the winners of the 24 hour hackathon.

Figure 15: First prize Winners of the hackathon receiving their prize from the judges and staff.

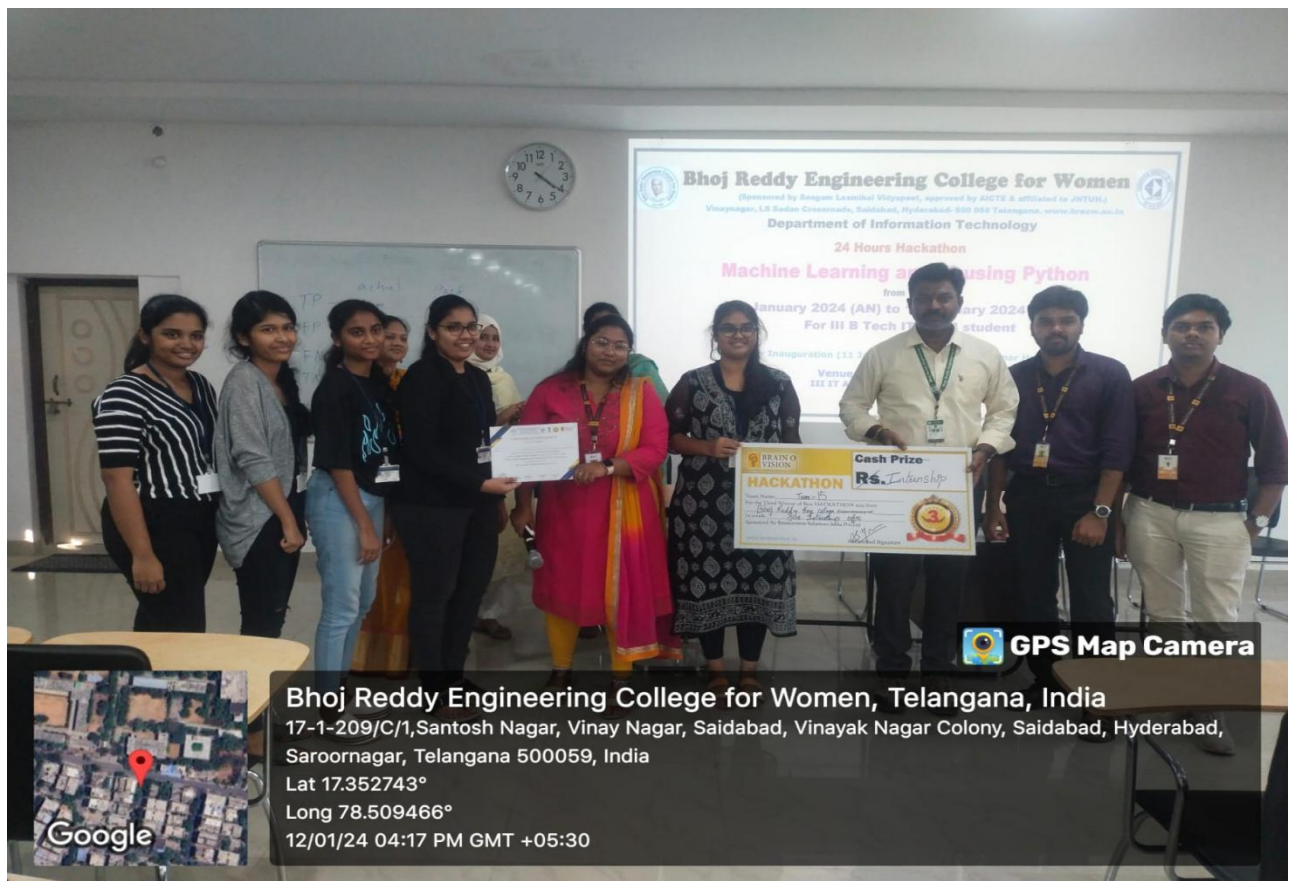Figure 16: Second prize winners of the hackathon receiving the prize from judges and staff.

Figure 17: Third prize winnners are receiving their prize from judges and staff.

Figure 18: All the winners of the day along with Judges and staff members.

Figure 19: Certificate given to Dr C Murugamani, HOD IT

Figure 20: Certificate given to Workshop and hackathon incharge Ms Minhaj Begum.

Figure 21: HOD IT, Staff members, and students of III IT A and B.

Glimpse of the valedictory function:

The valedictory function started with a welcome speech by Ms. T.Sri Thanaya of III B Tech IT B, followed by a Keynote address by Dr. J Madhavan, Principal, Chief Guest Ms Yasaswi surabhi, Dr. C Murugamani, HoD IT. During the valedictory function, students expressed their views and gave feedback about the workshop. Ms Manaswini of III IT A proposed the vote of thanks.

All the participants were given participation certificates in the valedictory function. The Feedback from the students was collected. Overall it was a fruitful experience for all participants, coordinators, and volunteers.

Minhaj Begum	Dr C Murugamani	Dr J Madhavan
Seminars & Workshops In-charge	HoD-IT	Principal