

AI in Agriculture

Smart Farming is the breakthrough application of Artificial Intelligence(AI) and technology in the field of agriculture. AI applications in agriculture have developed tools which help farmers' inaccurate decision making and controlled farming by providing them proper guidance about water management, crop rotation, timely harvesting, type of crop to be grown, optimum planting, pest attacks, nutrition management, etc.

Some examples on how AI has helped farmers are listed below:

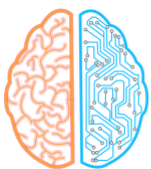
Alerts on Crop Infestation: Farmers can capture an image of their crop and use their solution to understand the pests, diseases, and foreign plants (weeds) growing in their farms. The solution uses deep learning and image processing models to identify any crop diseases or pest infestation in the crops.

Predictive agricultural analysis: With the help of AI tools we can build models that can predict optimum ways to sow seeds according to pattern observed in recent years. This is important since their yield is dependent on external factors as well.

Submission Report Format

Every team registering will have to submit their idea in the following format:

1. **Name:** Names of all the participants in the team.
2. **Email id:** Email of any one participant of the team. This will be the Email ID used for communication from our side.
3. **Idea name:** The name of the idea should be relatable to the description.
4. **Date of submission:** The date when the idea was submitted.
5. **Aim of the Idea:** Brief 1-2 line description of the idea, the purpose or outcome of the idea.

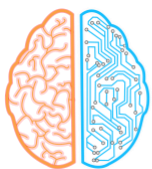


6. **Brief description about idea:** Explain your idea in 80 - 100 words. This is where the main idea will go.
7. **Novelty of the idea:** Explain why your idea is unique. Ensure that the answer contains explanations to questions like – How AI is solving the problem? What new features does your idea have? Has the idea been developed before? Have you overcome any shortcomings of an existing similar idea?
8. **Conclusion of the idea:** Conclude your idea in 50 words. Tell what is the scope of idea.

Evaluation will be based on

The participants will be evaluated on the following aspects :

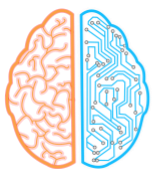
1. **Novelty of the idea:** The uniqueness of the idea, or if it is an extension of an existing idea then what shortcomings have been conquered and what developments have been made.
2. **Creativity:** Is there any creative idea applied?
3. **Efficiency and scalability:** Is the idea actually feasible? Are the resources used in the idea utilized wisely?
4. Is the idea giving back something to the society?
5. **Usability :** Is the idea useful?



Rules

The following rules will be followed throughout the event. Violation of any will result in disqualification.

1. Team Leader will receive all the mails regarding important updates.
2. Each Team should have minimum two members and can have maximum five members.
3. Students from same as well as different schools can participate together in a team.
4. Report submission should be done before or on the last date of submission. Submissions after the deadline will not be considered.
5. The idea of the team must be **unique** and the content should **not be plagiarised**.
6. The website will be updated regularly. The participants must check website regularly in order to stay updated at all times in case of any new developments or changes.
7. If the participants have any kinds of queries they must mail their queries on <mailto:aivitbhopal2019@gmail.com?subject=Queries> only.
8. **The decision taken by the Judges and Organizers will be deemed as final and binding, which will not be changed.**



Shortlisting

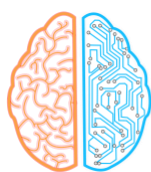
The top 3 ideas from each track will be selected for the final round based on the evaluation criteria. The selected teams will get a chance to present their idea to a wider audience and we will be guiding them to enhance their idea.

Prizes

One team from each track will be selected in final round and will be announced as winners by judges. All participants will receive Certificate of Participation and students selected for final round will get Certificate of Merit. Winners will receive a Certificate of Excellence and cash prize worth Rs. 5000/-.

Timeline

Last date of Registration	3 rd January 2021; 12:00 PM
Idea Submission	4 th January 2021; 10:00 PM
Round 1 Results Announcement	5 th January 2021; 01:00 PM
Final Round	6 th January 2021; 05:00 PM
Winners Announcement	7 th January 2021; 01:00 PM



FAQs

Q. How do I register for the Ideathon?

A. You have to fill a google form by clicking on register now on the home page.

Q. Are there any entry fees for the ideathon?

A. There is no entry fee for registering in the ideathon.

Q. Is it a team or an individual event?

A. It is a team event. A team must consist of minimum two participants and maximum 5 participants.

Q. How do I get regular updates about the competition?

A. Team leader will be getting regular mails of all the important updates.

Q. Are there any prerequisites?

A. No, There is no prerequisite as no coding is needed. The main thing you would need is a stable internet connection as well as a Laptop for the final round.

Q. Will we be guided during the ideathon?

A. A guide will be allotted to each team selected in final round.

Q. What is the deadline for registering?

A. The last date for registration is 3rd January 2021.

