

## S4DS Hackathon Problem Statements

1. AI/Robotics for Digital Payment Systems- Improving rural digit payment systems and make things easy using AI
2. Innovative Health care and biomedical devices using AI - How AI can play a role in Improving Health care and hospital management more efficiently. The doctors to patients in India is skewed up. How AI play role to improve this?
3. Agricultural Empowerment using Data Analytics and Smart Devices. There is problem in agriculture in every stream right from picking crops for harvesting, maintaining them for better yield, getting proper price of crop, how to improve production and reduce cost ... Pick any area to showcase how AI/IoT can solve this problem?
4. Robotics and Drones for Traffic Management. Traffic management is one of major problems in metro cities. How traffic management can be made more efficient using AI with respect to prediction, better management etc.....
5. Identify possible collision scenarios like speed of the vehicle, haphazard driving, driver feeling drowsy etc. and prevent accidents.
6. Track and Identify person's health habits, patterns and alert him/her with possible heart attack, diabetes and major life threatening events and develop smart communication channel with healthcare institutes and doctors.
7. Using AI/Robotics identify women's safety breach incidents and help women to alert nearby police stations, avoid any mishaps.
8. Develop a smart communication channel to coordinate between, patient, ambulance, hospitals and doctors and reduce mortality rate due to lack of timely treatment.
9. Using AI/Data science identify the needs of the trainings for students/teachers and develop learning paths. To extend, develop Smart communication channels between Universities, Colleges/Institutes, MNCs to design syllabus based on the future needs.

10. Using Data Science and Smart Communication, identify Social media trends and help Security agencies about suspicious/terrorist activities and possible suspects.

## S4DS Hackathon General Rules and Regulations

1. Only registered teams will be eligible for participation. Refer How to Register?
2. Teams which are fulfilling required criteria will only be allowed to participate. Please refer to Eligibility Criteria for more details.
3. Your Submission and all components thereof must: (a) be your (or your Team) original work product; (b) be solely owned by you or your Team with no other person or entity having any right or interest in it; and (c) not violate the intellectual property rights or other rights, including but not limited to copyright, trademark, patent, contract, and/or privacy rights, of any other person or entity. Participants may contract with a third party for technical assistance to create the Submission provided. The Submission components are solely the Participant's work product and the result of the Participant's ideas and creativity, and the Participant owns all rights to them. A Participant may submit a Submission that includes the use of open source software or hardware, provided the Participant complies with applicable open source licenses and, as part of the Submission, creates software that enhances and builds upon the features and functionality included in the underlying open source product. By entering the Hackathon you represent, warrant, and agree that your Submission meets these requirements and Hackathon Administration will be not obliged to answer or legally bounded for such instances.
4. The responsibility of the components and the materials required for developing the prototype during the Hackathon lies solely on the participating teams.
5. Travelling & Lodging must be borne by the participants.
6. Except basic facility (internet/electricity/working space) nothing will be provided so it is advised that the participants come prepared.
7. The entire idea need not be fully implemented however, the submission should be functional so that it can be reviewed by the judges.
8. An Eligible Individual may join only one Team. If a Team is entering the Hackathon, they must appoint and authorize one individual (the "Team Leader") to represent, act, and enter a Submission, on their behalf. The Team Leader and each Team member who participates in the Challenge must meet the eligibility requirements above. By entering a Submission on the Site on behalf of a Team you represent and warrant that you are the

Representative authorized to act on behalf of your Team.

9. All materials submitted in connection with the Hackathon must be in English or, if not in English, the participants must provide an English translation of the demonstration video, text description, and testing instructions as well as all other required information to operate or test the demo.
10. Project/Application must be newly created by the Participant during the Hackathon Submission Period