Diva Sharma, class 12, GD Goenka Public School, Vasant Kunj, New Delhi

Diva's mother works as a preschool teacher at the American Embassy in Delhi while her father has a business in the real estate industry. She has a sister, who studies in class VIII. Diva holds a Grade 8 Music Diploma from Rock School London and currently sings at local concerts. The School Student Council keeps her involved. In future, Diva wants to work in the field of technology and economics.

Alert system for injured animals

Diva Sharma, class 12, GD Goenka Public School, Vasant Kunj, New Delhi

Sometimes, even when injured or ill street animals are taken to animal hospitals on time, the treatment gets delayed due to the large number of cases and limited number of vets

Diva has developed an application, which records the respiratory rate, temperature, pulse rate, heart beat rate of animals, through sensors attached to their bodies, making it easier for doctors to detect an emergency.

The system is an economic way to alert doctors about emergencies, as soon as an animal is brought into a hospital. The system includes a sensor— attached to the bodies of the animals — that will monitor the heartbeat, check pulse rate and also help in checking blood loss. The sensor is connected to an app that can be downloaded by the vets on their smartphones.

"My device seeks to remove any callousness and negligence in monitoring sick animals and speed up the pace of medical aid provided to them. I wanted to use my knowledge to create something useful. Even pet owners who leave their pets alone at home all day can use this app," says Diva, who likes to feed stray dogs in her neighbourhood and has had many pets.