The Journey of EngiNX '18.

It was the month of March when we got to know the upcoming competition, **EngiNX**, hosted by the **TATA Consultancy Services**. The Theme of the 2018 version was Digital Twin. The entire competition was of 4 round. The first round was a regular quiz round with question from various technical domains. Over 7500 teams of four participated in this round. The results came on 2nd of May and we were shortlisted among the **Top 200 teams in India.** By the way 'we' are Ayush Thakur, Third year Undergrad in Electronics and Communication Engineering, Anubhav Singh, Third year Undergrad in Information and Technology, and, Soujanya Ray and Saunak Das, Final year Undergrads in Computer Science and Engineering. From Netaji Subhash Engineering College, with our team name **'Team Domini-uim'**.

For the Second round we had to submit an idea in the form of Use Case Proposal among these five categories -
1. Smart Mobility
2. Smart Manufacturing
3. Smart Healthcare
4. Smart Ecosystem
5. Smart Machine

So one evening we all sat and brainstormed for ideas. After hours of exercise we came up with an unique idea of optimising the city traffic by using existing infrastructure. We started making our Use Case proposal and in time we submitted our Idea.
The idea was to gather traffic density data from the already present infrastructure that is the traffic cameras at the road junction of the city and minimising the traffic flow across all the junctions using cloud technology and machine learning. The results were announced on 1st June and we made it into the top 100 teams.

The third round was making a video and stating the feasibility of our solution. In addition to that we had to submit our proof of concept. So we worked on and made a simulation to support our Use Case. After the submission of the package, TCS shortlisted the top 25 teams and forwarded us for the 3.5th round - 'Discussion with Experts'. We had to attend to the queries of the experts from TCS regarding our project. After a pretty successful discussion we were asked to wait for the results.

On 1st of August TCS declared the results and pushed us into the finals. The final was supposed to take place at Mumbai on 30th and 31st of August and we had less than 30 days in our hand. After hours of discussion and brainstorming we came up with the idea of building a real world prototype for our solution. Our college greatly encouraged us and financially aided the build of the prototype. We worked through many hurdles and were finally able to build the real world prototype.

On 29th of August we flew Mumbai and had packed 2 days of experience in the TCS Olympus Office and had the honour of meeting the President the Vice president and Who's Who of TCS. We were also honoured to present our project to the CEO, Mr. Rajesh Gopinathan and COO Mr. N Ganapathy Subramaniam. We missed the winner trophy by an inch and were able to bag the second runner-up prize an amount of Rs 1,00,000.

The Journey from 7500 teams to the top 3 teams was really worth remembering the entire lifetime.

The jury going through our prototype and asking us question regarding our solution.

The Vice President of TCS and Global head of IOT and EIS, Mr. Regu Ayyaswami curating our model.

Team Domini-uim with the second runners up prize.