pwc

PwC Problem Statement

1. About PwC

PricewaterhouseCoopers (doing business as PwC) is a multinational professional services network with headquarters in London, United Kingdom. PwC ranks as the second largest professional services firm in the world and is one of the Big Four auditors, along with Deloitte, EY and KPMG. PwC is a network of firms in 158 countries, 721 locations, with 250,930 people. As of 2018, 28% of the workforce worked in Asia, 28% in North America and the Caribbean and 30% in Western Europe. The company's global revenues were $41.3 billion in FY 2018, of which $17.06 billion was generated by its Assurance practice, $10.45 billion by its Tax practice and $13.78 billion by its Advisory practice. PwC provides services to 420 out of 500 Fortune 500 companies.

2. Statement: IoT and Urban Drainage Modelling

As India's cities have expanded, their drainage systems have not kept pace with building growth nor with the provision of water supply. The rate and scale of urbanization in India are unprecedented. Bengaluru's population doubled and Delhi's grew by 50% from 2000-2019.

Flooded streets, overflowing drains and waterlogged slums have become increasingly common. The costs of damage to roads and infrastructure and the invisible social costs arising out of the loss of livelihood and these problems threaten to turn fast-growing megalopolises into unhealthy cities of contradictions and inequality *(United Nations, 2011a).* As the perils of unplanned urbanization become apparent, it is necessary to revisit the planning approaches of our cities.

Today, the Internet of Things (IoT) devices are becoming part of smart city infrastructure and they have the potential to transform the way cities work. We look for innovative solutions that can exploit the potential of Artificial Intelligence, the Internet of Things, and Cloud to innovate new solutions and solve the problem of water drainage in modern-day metropolitan cities.

3. FAQs

1. Will there be Mentors to guide during the hackathon?

   Yes, company officials will be there to help throughout megathon.

2. Will the training dataset be provided ?

   No, you are expected to find (or synthesise) data sets from your end. Apart from using abstract/full text of research papers, other technical resources can also be used.

3. Will you provide additional computing power (external GPUs, Server access, etc)?

No you are expected to bring and work on your own computers only. No additional computing resources will be provided from our end.

4. Submission Format

- Presentation conveying your core idea
- Analysis of your idea's performance