PROPOSALS

VINAYAK AGARWAL
21MA10065
DEPARTMENT OF MATHEMATICS
VIDYASAGAR HALL OF RESIDENCE

Contesting for the post of:
General Secretary Technology
Technology Students' Gymkhana
Indian Institute of Technology Kharagpur (2023-24)

Proposal 1: Pre-Event Technology Workshops for Open-IIT Tech Events

Aim:

I propose to conduct workshops on relevant topics of Data, AI/ML, Case Study, Quant, Web and Game development, etc. in the field of technology for the students, before the commencement of Open-IIT tech events.

Benefits to the students:

These workshops on relevant topics would help the students, especially the first years in exploring various domains of technology. This will help them in developing these skills in a more organised and guided manner. These workshops will also help the other students to improve their skills and prepare for their internships in a better way. This would also lead to increased participation in Open-IIT events. This would lead to more quality participation in the General Championship and ultimately the Inter-IIT Tech Meets.

Implementation:

The workshops will be conducted in the months of August and September. We will be inviting 4th and 5th year students with expertise in various domains along with the relevant societies/clubs to conduct these workshops. Also we will be contacting relevant companies and startups for the same. The workshop would be of two hours which would be an introductory seminar. The course material will be decided by the speakers. It will be an interactive session with activities and hands-on experience along the way. A QR code containing the feedback form will be up at the end so that the interested students can fill in their details along with a small questionnaire to check their attentiveness and learning during the session. The shortlisted students would then be added into Google groups. The relevant secretaries would then regulate these groups along with the mentors. The further materials and doubt sessions would be then managed by the concerned secretaries and the speakers. At the end Technology Students' Gymkhana will be

awarding certificates to the attendees based on their performance in the workshops.

Groundwork:

I contacted first and second-year students who informed me about the lack of any organised platform to explore a certain domain before Open-IIT events. I also contacted seniors and heads of the relevant societies and they have agreed to guide the students in this regard. I also consulted these seniors and estimated the number of sessions that would be required to give the basic understanding of relevant topics to the students.

Proposal 2: Open IIT Blockchain Event

Aim:

I propose to introduce a new event namely the Open IIT Blockchain event. The objective of this event is to familiarise students with various technologies in the Blockchain domain.

Benefits:

Blockchain is a revolutionary technology that is disrupting various industries, including finance, supply chain management, and healthcare etc._An event focused on Blockchain technologies, would expose the students to a range of emerging technologies and concepts that are increasingly important in the tech industry. This could increase their knowledge and understanding of these technologies, which could help them to better understand and navigate the rapidly evolving digital landscape.

Implementation:

The upcoming event will feature a collaborative experience where teams of 3-5 members will delve into the fundamentals of Blockchain, including topics like DeFi and Smart contracts. To ensure participants are well-prepared, experienced senior members will conduct workshops leading up to the event. After the workshops, teams will receive a problem statement and will be tasked with developing a solution. This challenge will culminate in a presentation and demonstration, scheduled for one week following the release of the problem statement.

Groundwork:

We have established collaborations with two societies, Kode-in-Kgp and Kharagpur Blockchain Society, who have expressed their interest in supporting our event and providing technical assistance. We have contacted Inter-IIT Tech Meet contingent members, who have shown their support for our event.

Proposal 3: Campus Venue Management System

Aim:

I propose the development of a portal to centralize the booking for classrooms and auditoriums on the campus.

Benefits:

The current procedure for room bookings is very cumbersome and stressful, involving physical visits and numerous approvals. The portal will provide a single platform for students to book classrooms and auditoriums on campus. They can easily view availability of rooms, which can help in the planning and scheduling of events. The portal eliminates the need to physically visit the different administrative sections to reserve a room, saving time and effort. The portal also minimises the risk of double bookings or conflicting schedules, which can cause confusion and inconvenience for students. Overall, this helps the students and the administration in managing their events and workloads efficiently.

Implementation:

The portal which will be hosted on ERP (Enterprise Resource Planning), will contain the list of all the relevant venues (academic and non-academic) on the campus along with their allowed booking dates and time slots. To prevent the misuse of the portal, this portal would be available on the ERP of specific position-holders of the General Body. These students of the institute can log in to the portal through their Institute Email Id and password to initiate the booking. The student will have to enter the relevant details like venue name, booking date and time slot. They will also have to enter the purpose for the booking and the committee under which the purpose comes. The booking would be approved by the concerned administrative section, concerned committee coordinator, security control room and other relevant stakeholders. On confirmation, the system will send the notification for the same to all the concerned stakeholders. Regarding the payment for the venue booking, it can be done by generating demand in ERP.

Groundwork:

Upon reaching out to officials from various departments, including the Establishment section, Academic section, Cash section, and ERP, I received positive feedback regarding my proposal. Through my conversations with these officials, I gained knowledge about the process for booking rooms and auditoriums on campus.

The officials from the Establishment section provided information about the individuals involved in approving bookings for these types of events, while those at the Academic section informed me about how they can upload booking status onto the ERP system. This allows concerned stakeholders to easily approve the booking through the same platform. If the booking is payable, officials at the Establishment and Academic section can generate a payment demand through the ERP system, and the Cash section handles payment collection. Officials at the Cash section indicated that they could accommodate this demand generation.

Furthermore, I spoke with officials at the ERP section about the possibilities available. They informed me that all the concerned stakeholders have access to the ERP system, making it easier for them to approve the booking on the same platform. Additionally, they confirmed that it is possible to generate a demand through the ERP system for booking-related payments.

Proposal 4: An event "Trendsetter" – A Machine Learning Contest in Kshitij

Aim: An event based on Machine Learning wherein participants will use their skills and expertise in Machine Learning to predict cryptocurrency prices.

Benefits:

Combining the cutting-edge fields of Cryptocurrency and Machine Learning in a competition would undoubtedly capture the attention of college students and generate buzz for the fest among a fresh audience of potential participants. This event could attract significant sponsorships from major companies investing in these rapidly-growing domains, creating an opportunity for the fest to establish partnerships with industry leaders. By bringing together these two exciting fields, this event could foster innovation and creativity among students, as well as provide a platform for them to showcase their skills and knowledge in a competitive environment.

Implementation:

This team event will combine the exciting worlds of Cryptocurrency and Machine Learning, requiring participants to showcase their skills and knowledge in both domains. The competition will consist of two rounds - a quiz round and an offline round - with teams of 1-4 members. In the online quiz round, participants will be tested on their understanding of Machine Learning and Cryptocurrency, as well as relevant questions from sponsors. Based on performance, we will shortlist 15 teams for the offline round.

In the offline round, teams will be provided with a dataset containing the prices of various cryptocurrencies 10 days prior to the fest. They will then have to use their expertise to build a model for predicting the prices of these cryptocurrencies. During the fest, the teams will present and explain their models in person, and the models will be scored based on their accuracy and presentation. The team with the highest score will be crowned the winner.

Groundwork:

Kshitij organisers were consulted regarding the feasibility of the event. All sorts of logistics were discussed which concluded on a positive note. I also contacted the Publicity and Media Heads of the fest who agreed that this initiative would attract a whole new set of audience to the fest.