

TECHFEST 2024-25

DATAMATICS HACKATHON

INTRODUCTION

With the increasing demand for automation in business processes, leveraging tools like Datamatics TruBot and TruCap+ can significantly reduce manual tasks, improve accuracy, and increase efficiency. This competition provides participants the opportunity to implement cutting-edge automation solutions using these tools, with two different challenges to choose from.

Participants must select **one of the two** challenges and develop an automation solution using Datamatics TruBot and TruCap+ products:

Challenge 1: Customer Email Feedback Analysis Automation

→ **Objective:** Automate the processing of customer feedback emails to streamline customer service operations.

→ **Details:**

- The automation must connect to a specified email inbox (e.g., Gmail) to fetch customer feedback emails.
- The email content should be analyzed to classify it as positive, negative, or neutral.
- Key details should be extracted from the email, including:
 - Customer Name
 - Order ID (if applicable)
 - Feedback Category (e.g., product, service, delivery)
 - Sentiment Score
- The extracted details must be inserted into a Google Form.
- The system should automatically send a summary email notification to the customer service team, which includes the sentiment score and key details.

Challenge 2: Data Entry of Food or Petrol Bill Receipts Automation

→ **Objective:** Automate the extraction and data entry of receipt details from emails, minimizing manual work for the finance team.

→ **Details:**

- The automation must connect to a specified email inbox (e.g., Gmail) to fetch emails containing food or petrol bill receipts.
- Attachments (PDF or image format) should be downloaded, and key details should be extracted, including:
 - Receipt Date
 - Receipt Number
 - Vendor Name
 - Total Amount
 - Items Purchased (for food bills)

- The extracted details must be inserted into a Google Form.
- An email notification should be automatically sent to the finance team, summarizing the receipt details, including the total amount and vendor name.

RULES AND SUBMISSION CRITERIA

→ Team Composition:

- Each team can consist of a maximum of **3 members**.
- All team members must be registered participants of **IIT Bombay Techfest 2024**.

→ Submission Process:

- The first round will be conducted through online submission.
- The second round will be offline at IIT Bombay, where the final 10 teams will showcase their automation solutions.
- In the final round, teams will have to develop and demonstrate their solutions in real time. The judging panel will assess the functionality, creativity, code quality, and relevance of each project.

→ Project Submission Guidelines for Round 1:

- Submissions must be made via email and should include the following:
 - **Project Overview:** Brief description of the automation solution.
 - **Team Introduction:** Names of team members and their roles.
 - **Project Name:** Unique name identifying the project.
 - **Instructions:** Detailed instructions on how to run the project.
 - **Public Repository:** The project code must be stored in a **public GitHub repository** accessible for the judging panel to review the code. Ensure that the **main branch** contains the most up-to-date version of the project. **No additional code should be pushed after the deadline**, or it may lead to disqualification.

→ Submission Details:

- All files, including the **project code**, **presentation**, and **video**, must be stored in a single folder in the GitHub repository.
- The folder details must be sent via email to the provided email address [to be shared].
- **Email Subject:** Round 1 Submission Datamatics Hackathon [TeamName]
- **GitHub Repository:** Include the **filename** of the GitHub repository in the email.
- **Team Information:** Clearly mention the **team name**, **team members**, and **contact information** in the email.

→ **Video Submission:**

- Teams must create a **5-7 minute video** that demonstrates the execution of their solution.
- The video should highlight key features and functionality of the automation.
- The link to the video should be included in the email submission along with the GitHub repository details.

ADDITIONAL NOTES:

- All submissions must adhere to ethical standards. Any form of **plagiarism** will result in immediate disqualification.
- The decision of the judging panel will be final and binding on all participants.
- These rules and submission criteria are designed to ensure a **fair** and **competitive environment** for all participants, encouraging innovation and excellence in RPA and IDP solutions.

GENERAL RULES

1. Every participant must register online on the official Techfest website. A unique Team ID will be allocated upon registration for future reference.
2. Participants must complete registration and submit their project before the deadlines specified. Late submissions will not be accepted.
3. The decisions of the organizers and judges will be final and binding. Techfest reserves the right to verify the identity and accuracy of participant details.
4. Techfest, IIT Bombay, will not be responsible for any late, lost, or misdirected submissions.
5. All ideas submitted by teams must be original and must not be protected by existing patents, copyrights, or publications.
6. The latest and most accurate information will be available on the official Techfest website. Registered participants will be informed via email about any changes.
7. All official communication will be conducted through the Techfest email.

Timeline

Event	Date
Registration Deadline	7th October
Abstract Submission	7th October
Round 1 Review	14th October
Mentoring Phase	20th Oct - 10th Nov
Round 2 Submission	28th November
Final Presentation and Demonstration	17th-19th December

JUDGING CRITERIA

The projects will be evaluated on the following parameters:

- **Functionality:** Does the project function correctly and automate the intended business process?
- **Creativity:** Is the project introducing a unique or innovative solution using the Datamatics TruBot and TruCap+ products?
- **Code Quality:** Is the code well-structured, following best practices in automation development, with proper comments and documentation?
- **Relevance:** Does the project align with the overall theme of automation and process improvement?

CERTIFICATE POLICY

- **Certificates of Excellence** will be provided to the **Top 3 teams**.
- **E-Certificates of Participation** will be awarded to teams scoring above a critical mark (to be decided later).

Prize Money

The **Prize money** will be awarded to the top 3 winners via **NEFT** and will be processed before **April 2025**.

The winners have to mail the following information (immediately after the announcement of the results) to **mrutyunjaya@techfest.org**.

Subject: Datamatics, team id - your position (example Datamatics, **Datamatics-1234567 – 1st position**)

Body of the email:

1. Account Holder's Name
2. Account Number
3. Bank Name and Branch Name
4. IFSC Code
5. Photograph of Passbook as Proof