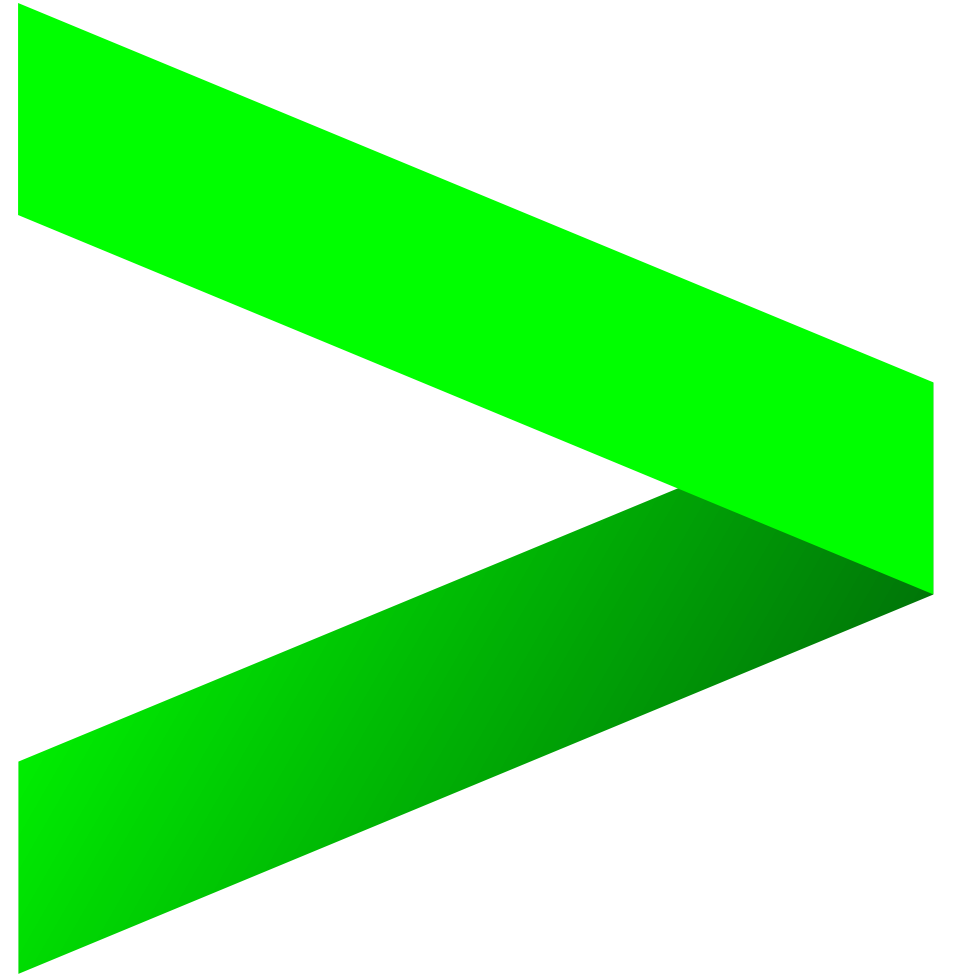# MICROSOFT DATA & AI HACKATHON

PARTICIPATION GUIDE

accenturetechnology

HACKATHON OVERVIEW

Welcome to the Microsoft Data & AI Hackathon. During this hack journey you will be selecting one of the themes and working on solving a challenge related to that theme. There are training sessions conducted by Microsoft which will be a great jumpstart to work on the challenges.

Now, your participation presents a chance for you to get your hands dirty and explore the Microsoft Data & AI space solving a real-world problem. We hope you're ready to bring your ideas to life while having lots of fun. We are excited to see what innovations result from the diverse and complimentary skills on each team!

Thank you for joining us on this adventure!

IMPORTANT DETAILS

- **Registration:** Registrations are open from **May 3–17**. There are 500 early bird prizes up for grabs. Act fast.

- **Prep for the hack:** All the teams who register (comprising 3–5 participants each) will be trained by Microsoft from **May 20–24** to equip them with the right skills to excel in the hack.

- **Preliminary Round:** Teams will solve challenges around **5 Data & AI themes** in this virtual hack from closing on **May 31**. The winners will be rewarded for their out-of-the-box solutions.

- **Grand Finale: Top 10 teams** will **#HackTheNext** in Bangalore on **June 21**. The three winning teams earn handsome cash rewards of **US$5000, US$3000 and US$2000** for their game-changing ideas. What's more–There are **two consolation prizes** of **US$1000** each. All the finale teams get their claim to fame with participation certificates from Microsoft.

LOGISTICS AND AGENDA

1. 5 Data & AI Themes along with representative challenges are uploaded in Hackathon teams site. Participants might choose to pick one of the representative challenges or bring their own challenge aligned to one of the 5 themes.

2. A 2-slider presentation describing the challenge, high level architecture, tech stack and the proposed solution needs to be submitted by May 23rd 5:00 PM IST

3.   Shortlisted teams will be announced on May 24th

4. Preliminary Hack closes on May 31st 5:00PM IST. As part of this round completion, a working solution, code snippets and a 5-10 mins video recording needs to be submitted in the teams site.

5. All the eligible solutions will be presented by the respective teams to the selection panel over skype. From that top 10 teams will be announced by June 11th

6. Top 10 teams will reach Bangalore on June 20th and the grand finale will be on June 21st .

7. Top 3 teams will grab their grand prizes in the finale event.

JUDGING CRITERIA

Your solutions will be judged based on the following four parameters. Teams will be given 1 to 5 points by the judges for each parameter listed below.

Innovation/Ambition

Is the idea unique, or a different take on an existing solution?
What makes the solution useful?
Is the idea ambitious and competitive?
How well did the solution execute vis-a-vis the concept?

Practicality

Does the solution hold business value for Accenture and clients?
Can we invest time and effort in the solution for further development?
Does the idea/solution align with the theme of the event?
Does the solution have realistic capability to quickly benefit clients?

Microsoft Data & AI Usage

How effectively the solution leverages Azure Data & AI services?
How effectively open source AI technologies are leveraging Azure Cloud?
How well the solution are built to be infused within the line of business?
How well the working solution performed vis-à-vis the concept?

Presentation

How well the team presented its concept?
How well the team documented the benefits?

TECHNOLOGY CONSIDERATIONS FOR HACK

Below are the technology choices that must be leveraged :

Azure Data Platform
Innovate faster with Azure data services

Azure AI Platform
Make artificial intelligence (AI) real for your business today.
Some recommended open source tools are:

Azure Databricks Machine Learning Platform
A machine learning runtime that contains multiple popular libraries, including TensorFlow, PyTorch, Keras, and XGBoost

Tensorflow & Keras on Azure
Easily run TensorFlow and Keras models on Azure Compute.

Pytorch on Azure
Easily run Pytorch models on Azure Compute.

SOLUTION SUBMISSION GUIDELINES

Participants need to submit the following artefacts:

1) **Presentation**

- Teams should create **ONLY** a **2-slide presentation**
- Upload presentation in the Hackathon_Presentation section within teams
- Index slide should have the following information
    - Team Name
    - Team Leader Name
    - Team Members' Names
- Slide 1 should contain :
    - Theme and Challenge statement
    - proposed solution
    - solution benefits
- Slide 2 should contain :
    - high level architecture
    - Technology choices made

2) Video

The teams are required to produce only 1 video

- Explaining the objective
- Demonstrating the solution
- Explaining the technology
- Keep the team name as video file name
- Video duration should be 5-10 mins

3) Code Snippets

- Source code files needs to be submitted
- Solutions can be built using Accenture MSDN Subscriptions or using personal Azure credits
- Selected solution ideas will be provide 200 USD Azure credits

Video and Code snippet to be zipped and uploaded in the Hackathon_FinalSubmission section with MicrosoftDataAndAI_Hackthon teams site.