ABInBev

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Problem Statements

Rules and Guidelines

- Teams have to choose any one problem statement from the 3 mentioned below.
- Teams have to submit the following for the problem statement of their choice.
    - **A zip file of the source code of the solution.**
    - **A 3 to 5 minutes video, demonstrating the application/solution.**
- The use of an external dataset is prohibited.
- Participants found deviating from the general guidelines will be disqualified and will not be considered in the running for the Finale.
- All decisions in matters of eligibility, authenticity & final judgment will be with Dare2Compete and AB InBev. No clarifications will be entertained.

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Problem Statement 1

Develop an intelligent system that can translate unstructured data (manual + system based text, images) into a machine-readable format.

Many business processes are heavily manual in nature and are yet to embark on the digital journey. While brewing beer on a global scale is a challenge in itself, support processes such as Procurement, Finance and Accounting, Human resources, Supply Chain Management and IT also play a crucial role in enabling the business to perform efficiently. There are multiple case scenarios where the problem statement is applicable.

For example, in the accounting process, vendors provide system generated invoices/handwritten invoices for payments of contracts. Refer to the variations in sample invoices and it gives a glimpse of the complexity in processing huge volumes of such invoices.

There are intelligent character reading systems in the market but their efficiencies are quite low. We need you to create an intelligent bot that can be trained to identify key data points like invoice data, vendor name, unit of currency, tax amount, PO or contract reference number from the document.

You can download the invoice format from here: https://d2c.pw/zcBfa.

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Problem Statement 2

AB InBev as a part of their Trade and Marketing strategy provides chillers to their on-trade and off-trade outlets/channels. Distribution of these chillers helps our consumers to have visibility into our portfolio offerings and at the same time enjoy our chilled beers. We have implemented an IoT based solution to continuously check the health of the chiller (example: temperature) and our brand visibility by capturing images of the entire chiller at regular time intervals. These images are then transferred to our cloud platform for further analysis on shelf purity, planogram compliance, etc.

Develop an efficient and accurate algorithm to identify our products at SKU level (Stock Keeping Unit is the least unit delivered to the customer) and share the details of the products from an image in a matrix.

You can download the dataset from here: **https://d2c.pw/S6U4N**.

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Problem Statement 3

The future is all about coexistence

Bring machine intelligence to life in business! We want to create a smart-working environment where we can rely on smart assistants that can support humans in low-risk business activities.

For example, the resource needs to fill timesheets, create expense reports, raise leave requests, etc. These can be completed using bots, applications, smart devices, etc.

Integrate smart assistant functionality with business tools (ServiceNow, Tally, Zoho, etc) to fetch data and perform actions on hand's free mode. **Ex:** Fill timesheet in Zoho app, Raise a service ticket in ServiceNow, raise an expense claim in Tally, etc. Teams need to take up at least two use cases for the submission.

Note: You can use Dialogflow and Alexa Skills kit (ASK) to demonstrate