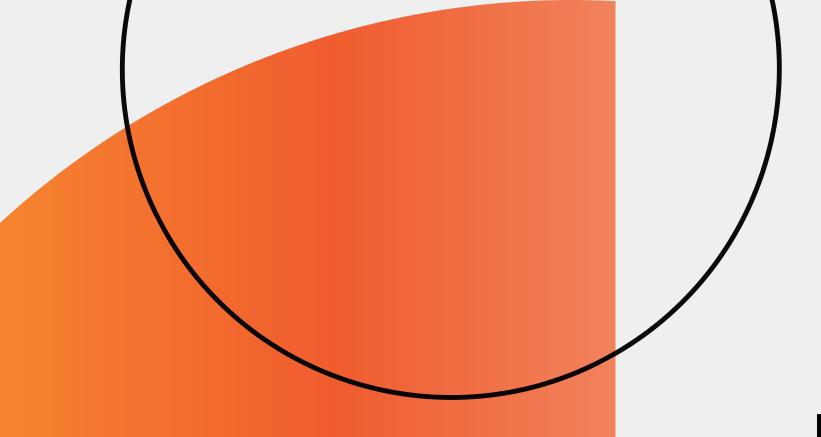
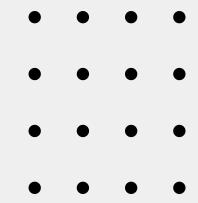
Let's Start

EXL Hackbot

- Deepakindresh





Agenda

Problem Statement

Solution

Design

Features

Demo

Future Scope

Conclusion

Problem Statement

Flexible API Layer

To handle different workloads

Interactive Design

Easy to use UI/UX and handle structured and unstructured data

Fault-Tolerant

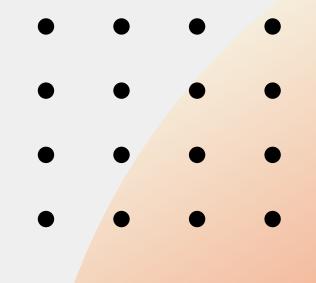
The system should predict failures and scale accordingly

Automation

Automation of creating topics by uploading a basic web URL

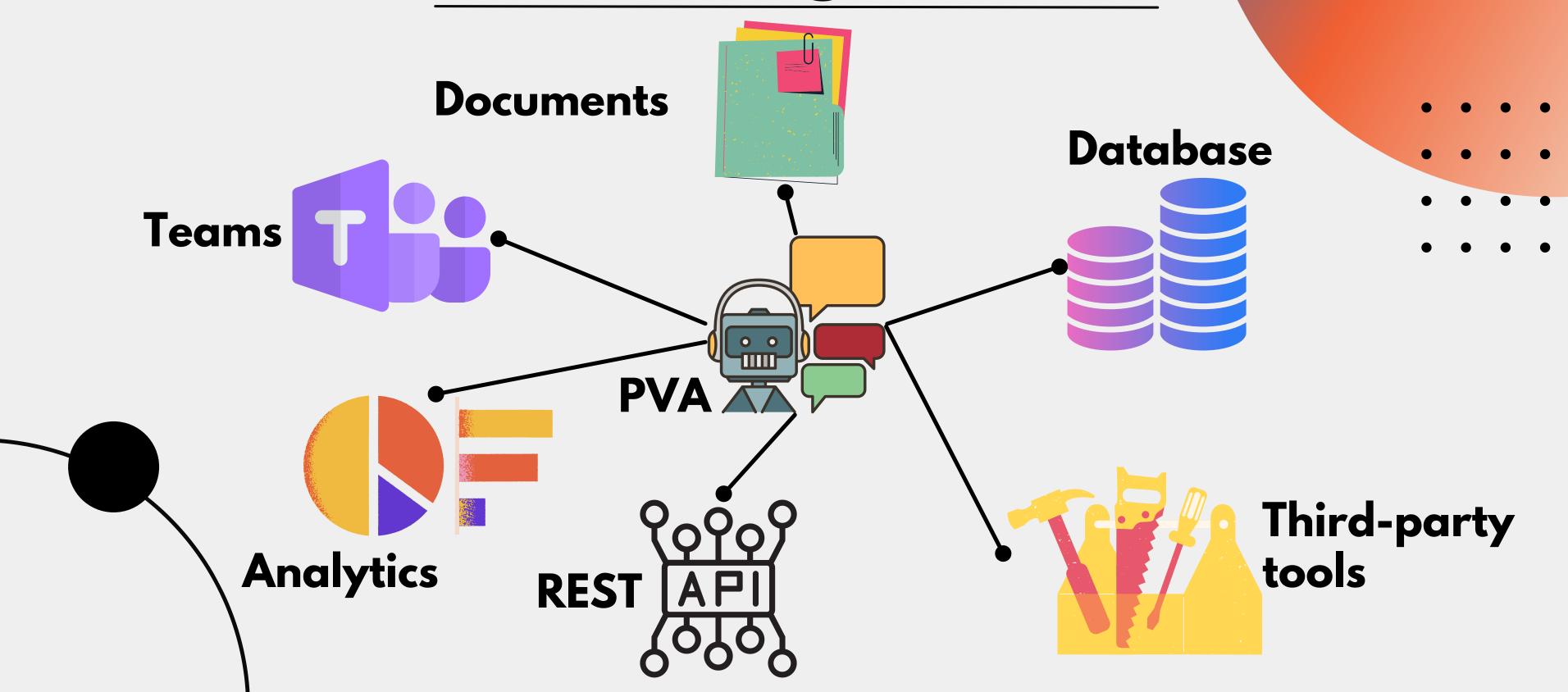
The Solution

A bot that is not just capable of handling communications, but also takes actions from making API calls to sending messages to live agents, accessing databases all from one place



Hackbot - Power Virtual Agent (PVA)

Design



Features







User Friendly Interactions



Intelligent

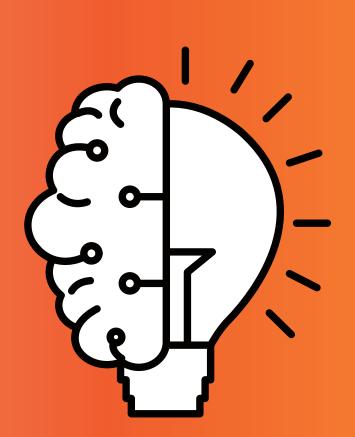
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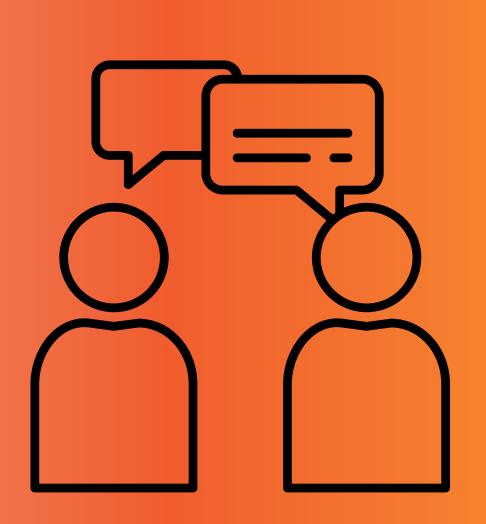
Intelligence

- The bot is capable of suggesting topics if provided a Web URL such as an FAQ page, or a Document hosted in a URL which could be a PDF, etc.
- The bot can also flow from one topic to another topic if it requires additional data without explicitly constructing it



Interactiveness

- The PVA tool provides pre-built topics for greeting and ending conversations etc. which was trained on a huge data corpus
- This allows the bot to understand and respond to unstructured data such as "3 pm today" and converts it to "10-07-2022 15:00:00"



Security and Compliance

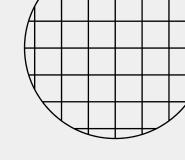
- The Hackbot was created using Power Virtual Agent by Microsoft, a Saas solution, and thus security is handled by the cloud.
- Furthermore, there are additional features such as authentication and web channel security.



Analysis and Testing

- The Virtual Power Agent also provides tools, graphs, and metrics for analyzing the performance of the bot such as: -
- Engagement Rate
- Escalation Rate
- Abandon Rate





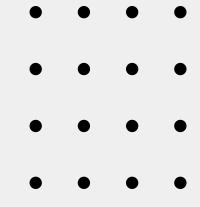
Implementation

The detailed implementation is provided in the "EXLHackbot_Documentation.pdf" attached in the zip file

Demo Link of Hackbot:-

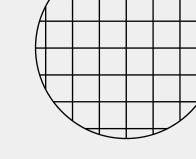
https://web.powerva.microsoft.com/environments/Default-d4963ce2-af94-4122-95a9-644e8b01624d/bots/466369c7-4963-4a8a-82af-1716433ff342/canvas

Future Scope



Build Recommender Systems using Machine Learning

- Customer-based data
- Product-based data



Customer-based data

Dataset involving customer details such as previous orders, age, weekday most visited etc.

Scenario: Food Restaurant Company (Eg. KFC)

For Cross-selling: -

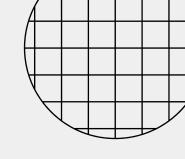
The customer must have a history of trying new things, and different meal orders each time. Thus the model must be able to predict new products that the customer is likely to try.

For Upselling: -

It should be a regular customer who orders the same thing and checking his/her age if it is possible to upsell to this person.

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Product-based data

Dataset involving product details such as most popular dish, correlation between two different dishes etc.

Scenario: Food Restaurant Company (Eg. KFC)

For Cross-selling: -

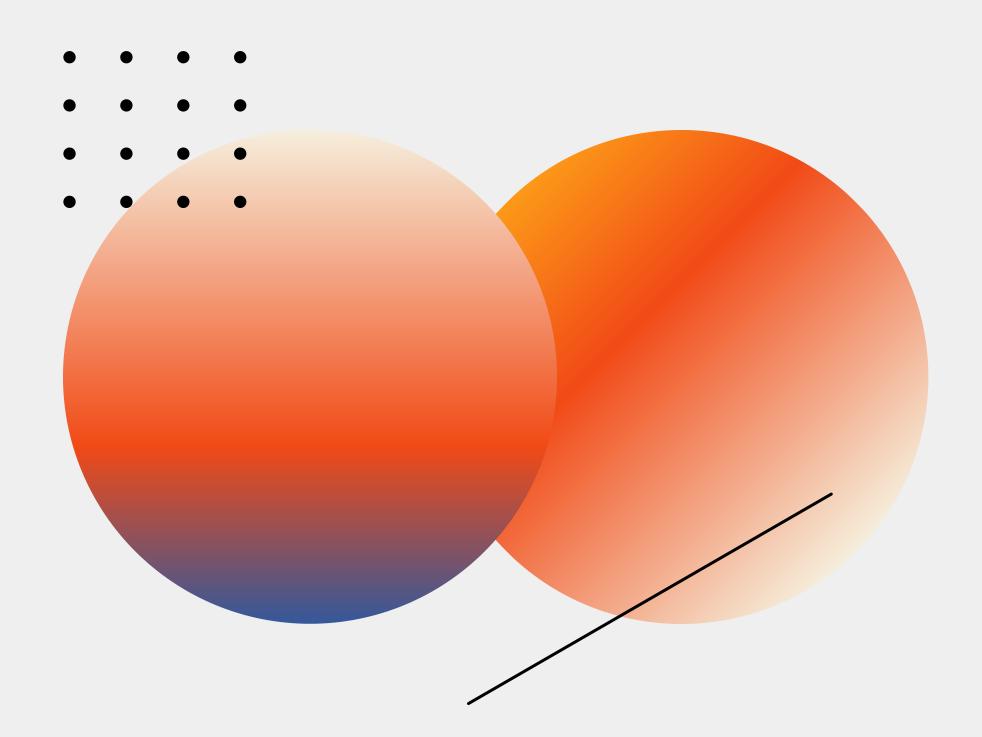
The products that are bought together for example if the data suggests that 90% of customers buy fries if ordered burgers, then the machine learning model must suggest fries if the customer asks for a burger.

For Upselling: -

The model must be able to check the day of the week and understand available offers and try upselling products.

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Conclusion

The Hackbot is tailored for businesses and enterprises and is highly trustable as it uses well-known Microsoft products. It can also be customized and created within days for any different company with different goals.

End

Thank you

Do you have any questions?

