

Data & AI Hackathon



Goals

This is a learning event : Stop us , Ask Questions

Hack and learn with team of Microsoft's expert cloud architects and industry specialists for financial services business use cases.

- Learn how to solve real-world Insurance, Banking, and Capital Markets data challenges with Microsoft Azure AI & Analytics
- Understand the common business scenarios in Financial Services as it relates to Analytics, AI and ML.
- Provide an overview of the high-level architecture and how the solution will be put together.
- Provide step by step guidance on creating the solution.

Use cases/Business scenarios

AI-Powered Insurance Claims Automation

Handling Claims processing through an intelligent agent with cognitive skills to handle image, ID, and documents with goal to reduce claims processing time and manual effort in end-to-end claims processing for better customer experience

The solution will showcase Azure platform's machine learning capability to recognize document type, extract required fields and push data to downstream applications, significantly reducing manual efforts and creating smoother customer experience.

Call Center Intelligence

Automating phone call through voice transcription, Text Analytics, and NLP in real-time and providing intelligent insights to Agent as well as customer.

AI-Powered Insurance Claims Automation



Chief information officer Andre is responsible for making sure that all Customer data is ingested properly and is available for any other application or organization.

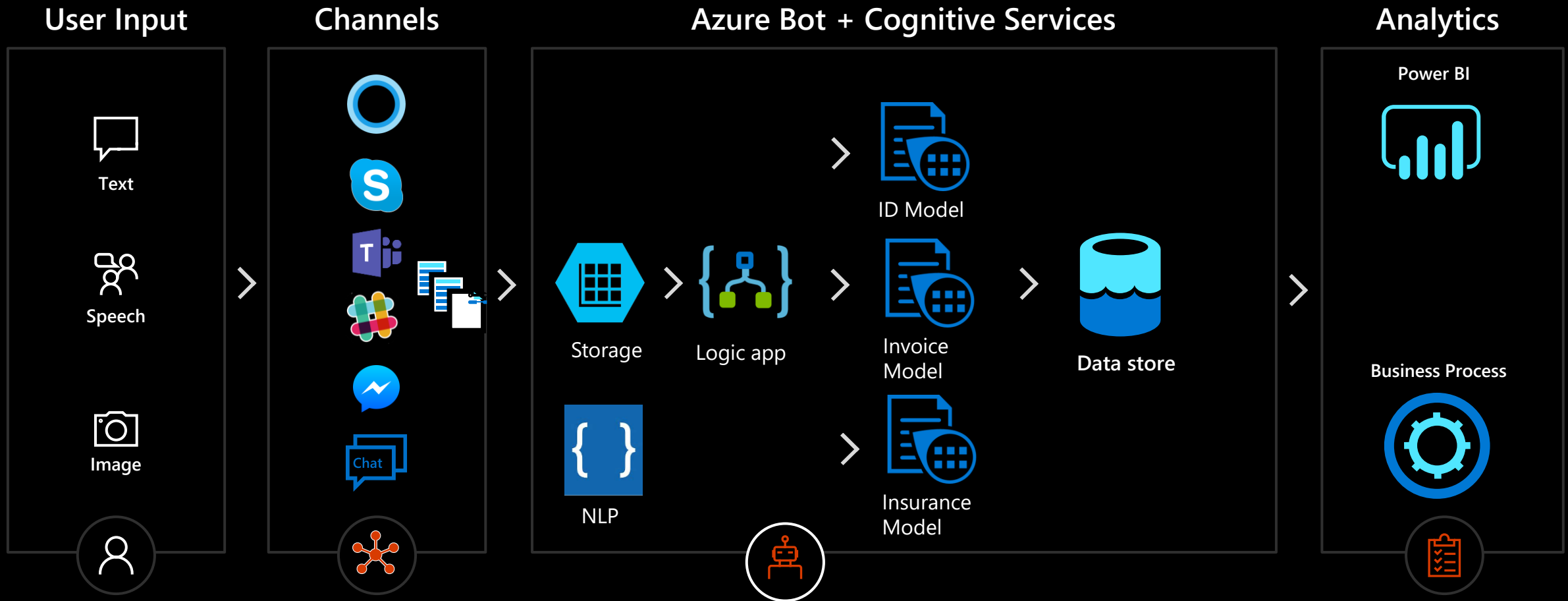


A large portion of information submitted by customers comes in either handwritten or scanned forms. Woodgrove spends manual labor hours to scrape and digitize the data.



The manual process has slowed down the pace of business and adds significant cost. To enhance the customer experience and cut expenses Andre is looking to use Artificial intelligence and other Azure services to automate this process.

AI-Powered Insurance Claims Automation - Architecture



Demo & GitHub

<https://www.github.com/akshata29/fsihack>

Azure AI

Azure AI

Scenario-specific services



Bot Service



Cognitive Search



Form Recognizer



Video Indexer

Customizable models

Vision, Speech, Language, Decision



Cognitive Services

ML platform



Azure Machine Learning

Data Platform

App Dev Platform & tools

Compute

58 Regions

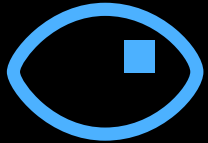
90+ Compliance Offerings

95% Fortune 500 use Azure

\$1B Security investment per year

Azure

Azure Cognitive Services



Vision

- Computer Vision
- Custom Vision
- Face
- Form Recognizer
- Ink Recognizer
- Video Indexer



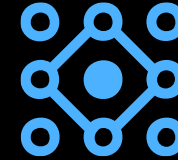
Speech

- Speaker Recognition
- Speech



Language

- Immersive Reader
- Language Understanding
- Text Analytics
- Translator Text
- QnA Maker



Decision

- Anomaly Detector
- Content Moderator
- Personalizer



Web Search

- Bing Autosuggest
- Bing Custom Search
- Bing Entity Search
- Bing Spell Check
- Bing Web Search

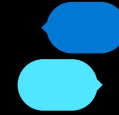
● Container Support

● Customizable

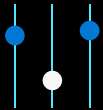
AI Apps & Agent Scenarios



Robotic process automation



Intelligent customer support



Personalization



Sentiment analysis



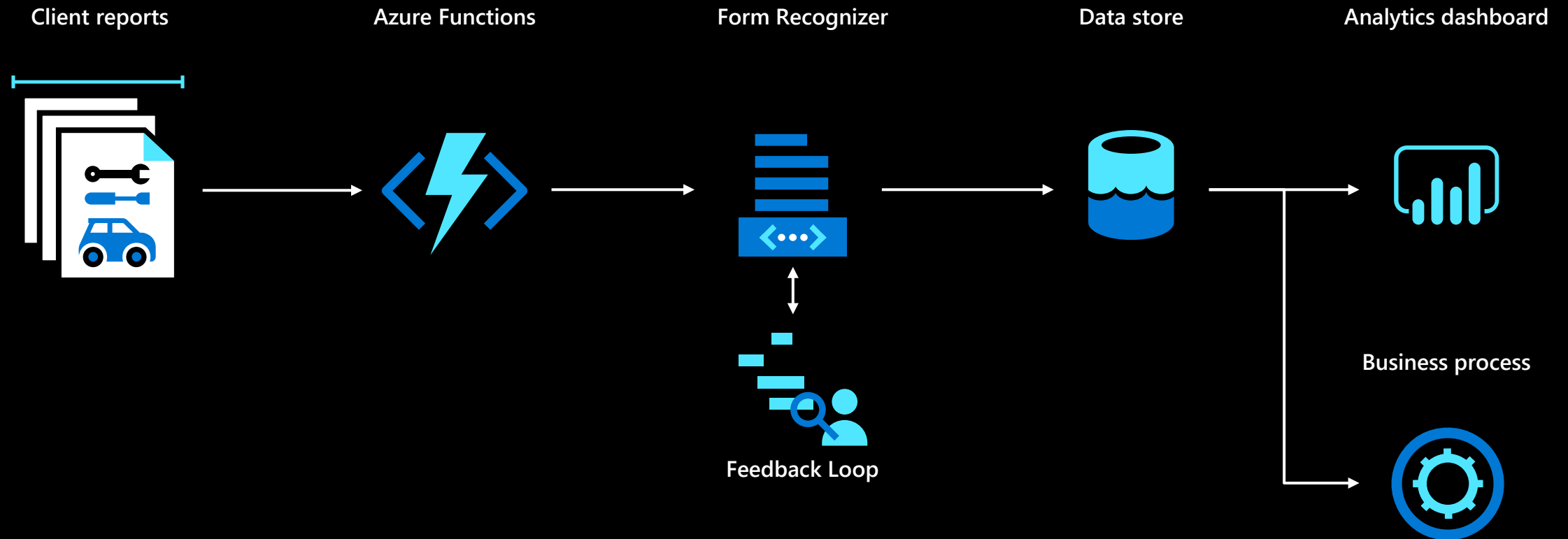
Object detection



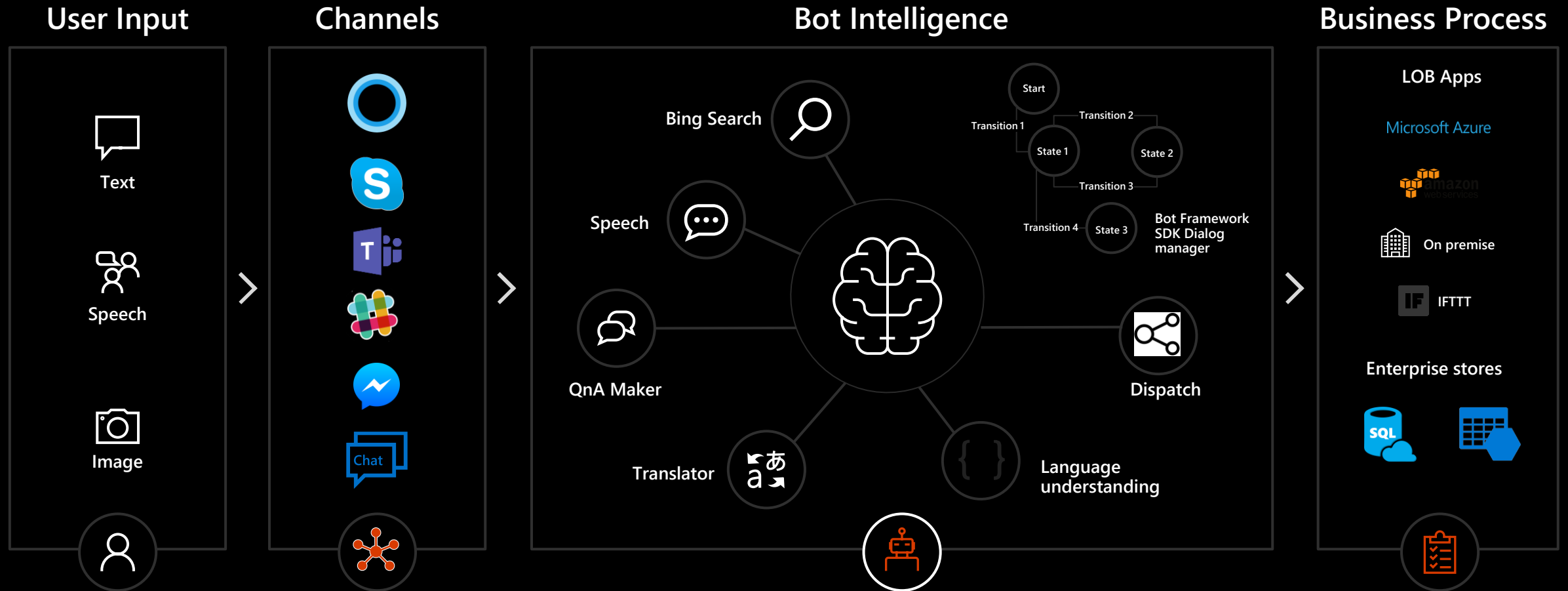
Intelligent agents



Robotic Process Automation



Conversational AI: Azure Bot Service + Cognitive Services



Azure Tools

Security

Logging

Auditing

Integration



Auditing and compliance

Ingest



Images



PDFs

Azure Blob Storage

Enrich

Cognitive skills



Key phrase extraction



Language
detection



Named entity
extraction



Automatic
translation

Custom skills



Clause
extraction



Risk
identifier



Search Index

Azure Cognitive Search

Explore



Azure Web App