

What's new in Azure Data platform and AI

Pietro Brambati Guenda Sciancalepore

Start at 11.30



Guenda Sciancalepore, CSA Data Science and AI







Pietro Brambati, Senior CSA
Data and IoT Expert



Azure data services

NoSQL

Open Source

SQL

Analytics and Insights

Data Governance

Azure Cosmos DB

- Integrated cache
- Enterprise-grade security
- Linux emulator
- Free tier enhancements

Serverless

Generally available

Azure data services

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Azure Database for PostgreSQL and MySQL

- Flexible Server Free Offer—June 2021
- PostgreSQL Hyperscale basic tier
- PostgreSQL 13 on Hyperscale
- Azure Defender for PostgreSQL and MySQL

Azure data services

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SQL

Analytics and Insights

Data Governance

Azure SQL



Azure SQL Database ledger capabilities

Azure data services

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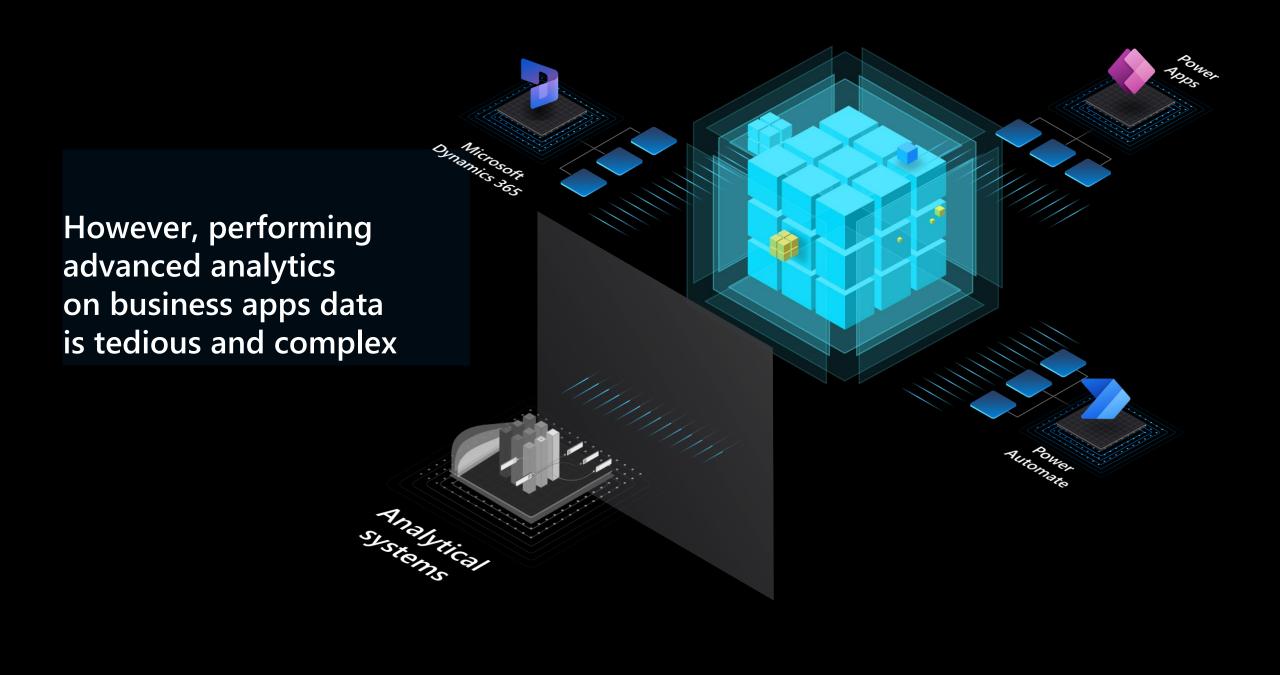
Analytics and Insights

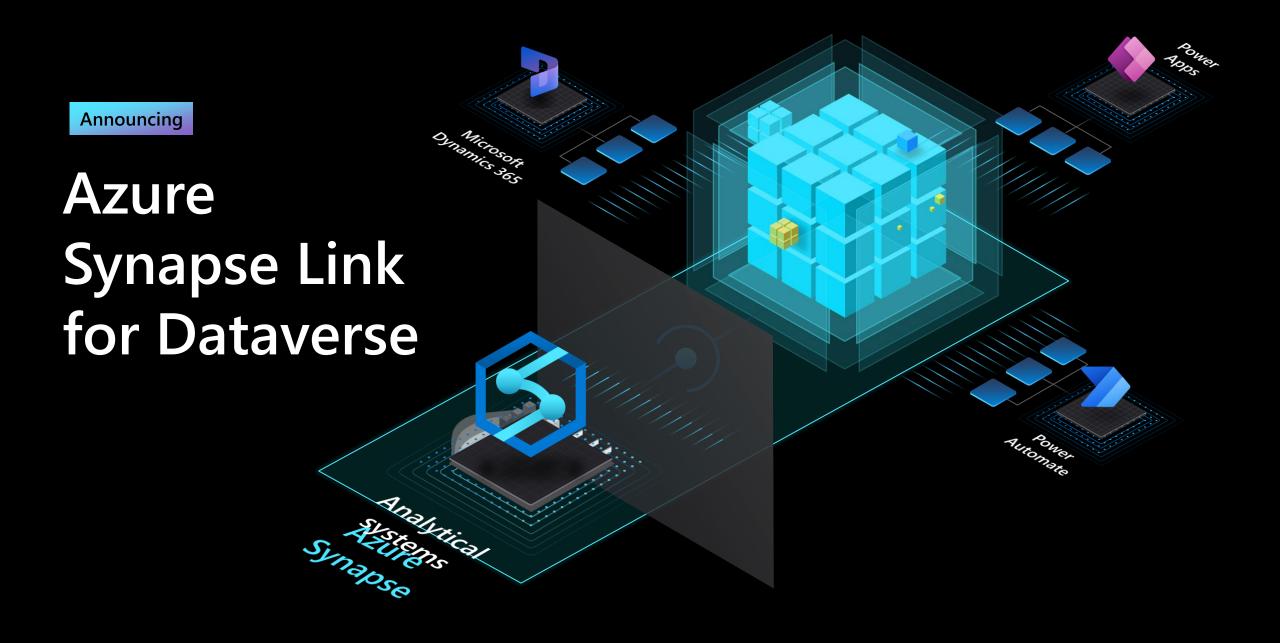
Data Governance



Dataverse

Dataverse, the common store for Microsoft business applications, is a data insights goldmine





Synapse Apache Spark

Apache Spark 3.0 now available

- Full ACID compliance with Delta Lake (0.8)
- Adaptive query execution and dynamic partition pruning
- ANSI SQL compatibility

Built-in GPU support

- Accelerated data preparation workflows with NVIDIA RAPIDS
- Accelerated deep neural network processing

Streaming dataflows

Streaming data as a first-class citizen in Power BI

- Seamless low-code/no-code experience
- Includes both real-time (hot) and historical (cold) data
- Real-time reports with every Power BI visualization

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Data governance

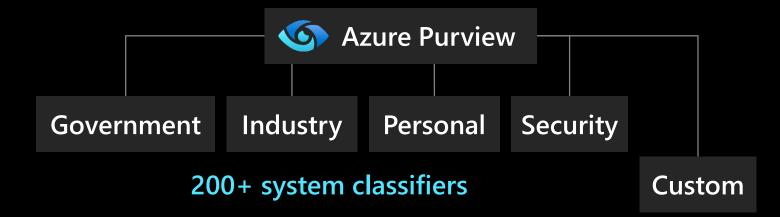
Azure Purview now supports automated scanning and classification of OSS Databases





Data governance

Azure Purview now supports 2X system classifiers



Announcing

Azure Applied Al Services



Azure Video Analyzer



Azure Metrics Advisor



Azure Bot Service



Azure Form Recognizer



Azure Cognitive Search



Azure Immersive Reader

Azure Cognitive Services



Language



Vision



Decision



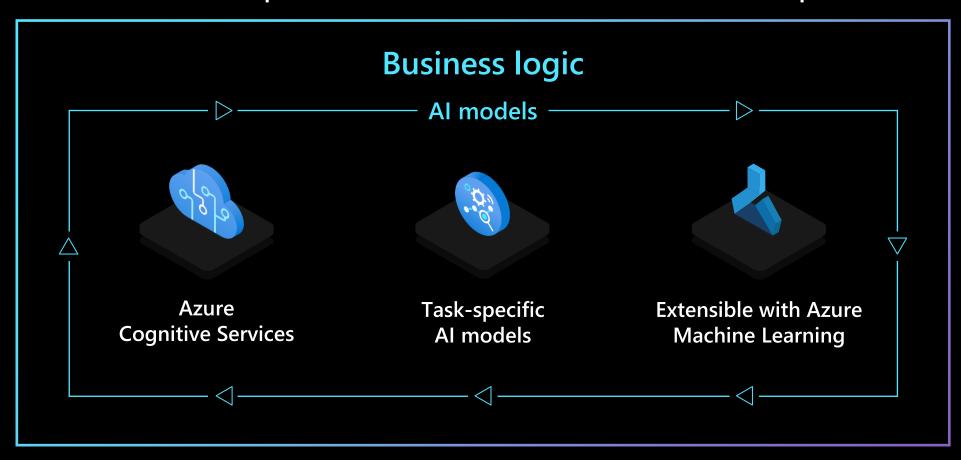
Speech

Azure Machine Learning



Azure Applied Al Services

Accelerate development of AI solutions for common business processes



Azure Video Analyzer

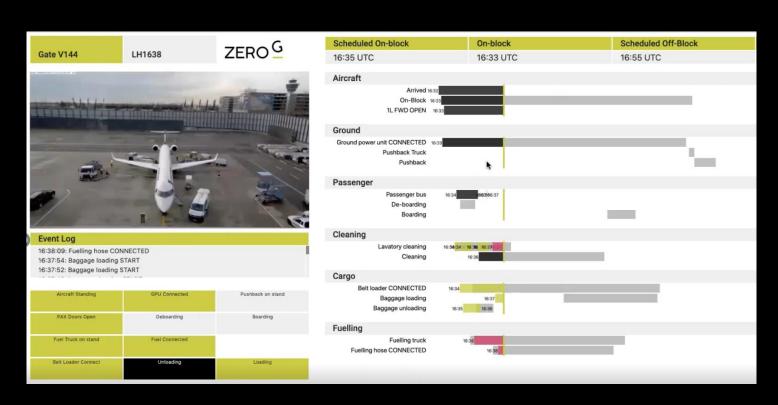
Extract actionable insights from videos

Preview

Capture, record, and analyze videos

Extract rich insights from stored and streaming videos

Run responsibly anywhere



Azure Metrics Advisor

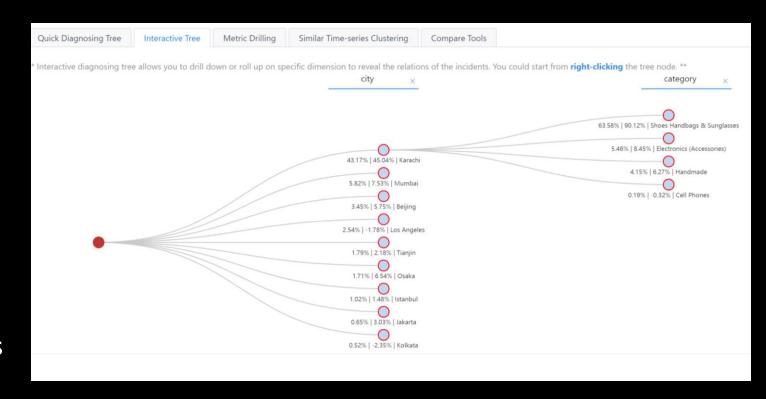
Proactive monitoring and root-cause analysis

General availability

Simplify data ingestion and augmentation

Detect anomalies for a variety of scenarios

Monitor and diagnose with alerts and root-cause analysis



Azure Bot Service

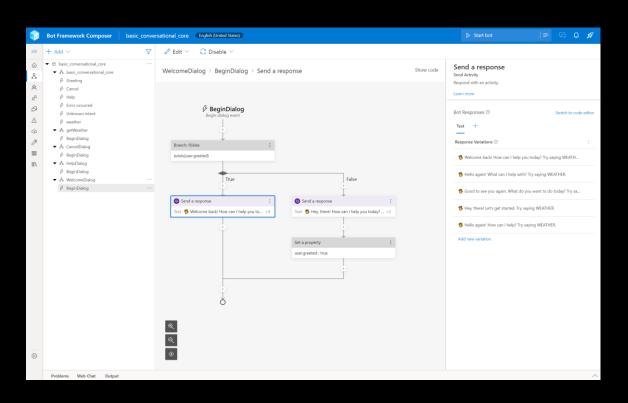
Comprehensive bot development experience

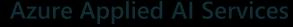
New Capabilities

Integrated end-to-end development experience

Text and voice assistant templates

Telephony support











Azure Metrics Advisor



Azure Bot Service



Azure Form Recognizer



Azure Cognitive Search



Azure Immersiv

Azure Cognitive Services



Language



Vision



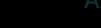
Decision



Speech

Azure Machine Learning





Azure Bot



Azure Form Recognizer



Azure Cognitive Search



Azure Immersiv



Azure Metrics

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Azure Video

Language



Vision



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Speech

Azure Machine Learnin

Azure Cognitive Services



Text Analytics for Health

Extract medical insights

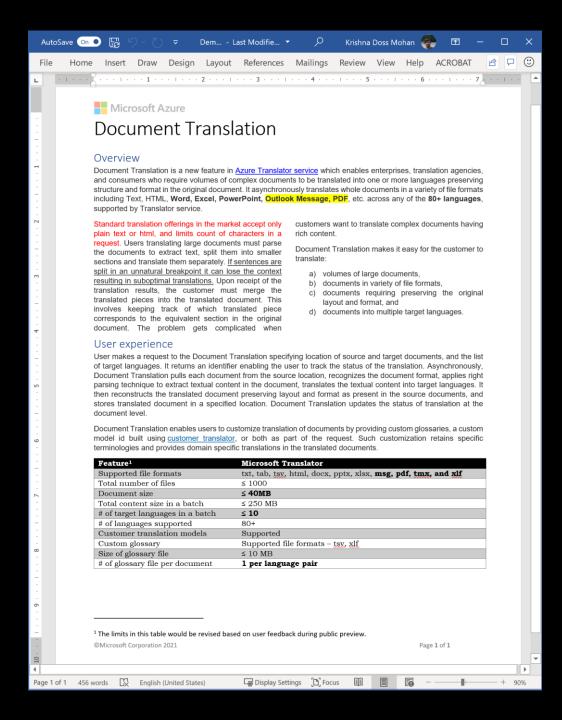


Woman in NAD with a h/o CAD, DM2, asthma, and HTN on Altace for 8 years awoke from sleep around 2:30 am this morning of a sore throat and swelling of tongue. She came immediately to the ED b/c she was having difficulty swallowing and some trouble breathing due to obstruction caused by the swelling. In the ED she was given 25mg Benadryl IV, 125 mg Solumedrol IV and Pepcid 20mg IV.

Document translation

Translate at scale and preserve format







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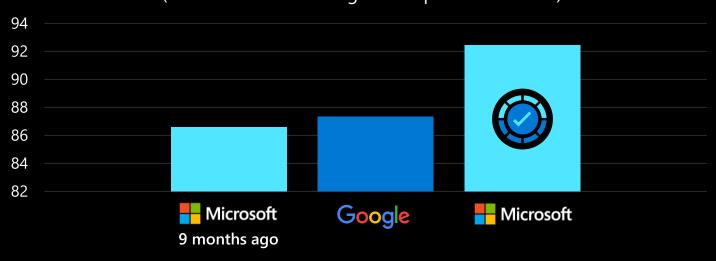
Azure Machine Learnine



Leader in nocaps benchmark

Image captioning

CIDEr
(Consensus-based Image Description Evaluation)



May 5, 2021

Vision

Industry-leading image captioning



Aéfere

A filedseed pwbeatplant



Vision

Industry-leading image tagging



Aéferre

Plantendamadderlien; green; geds; green; sky; sun; day; outdoor; flower; grassy; spring; landscape; nature





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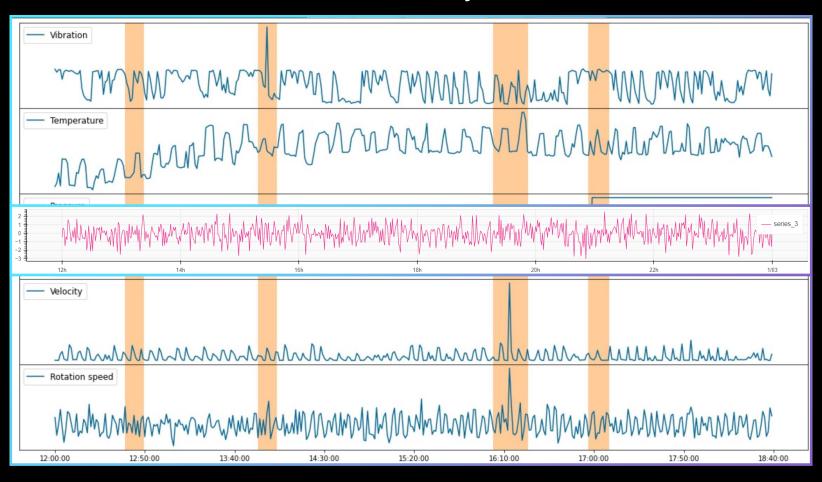
Speech

Azure Machine Learning



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Multivariate anomaly detection



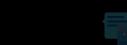




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Azure Cognitive Search



Azure Immersiv

Azure Cognitive Services



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Speech

Azure Machine Learning



Speech transcription

Continuous language detection

Before

Agent: Thank you for calling 311 service

center, how may I help you?

Caller: Hello, see Alice panyol?

Agent: See absolutely make it and

keep weather.

Caller: Oh honey all Korea padded ayuda

but I can make it Adam Lani V della entrada.

After

Agent: Thank you for calling 311 service

center, how may I help you?

Caller: Hello, sí...hablas español?

Agent: Sí, absolutamente. ¿En qué

puedo ayudar?

Caller: Oh genial, quería pedir ayuda para

que quiten la nieve de la entrada.



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Speech

Azure Machine Learning

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Azure Machine Learning Managed Endpoints

Azure Applied Al Service



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Announcing

O PyTorch

PyTorch Enterprise Support Program

Extending the reach of Al

Azure Power Platform









Power BI

Power Apps

Power Automate

Power Virtual Agents

Al Builder

Azure Applied AI Services





Azure Metrics Advisor



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Azure Form Azure Cognitive Recognizer



Search

Azure Immersive Reader

Azure Cognitive Services



Language



Vision



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Speech

Azure Machine Learning







Agenda della mattinata

09:30: Welcome - Claudia Angelelli - Technical team Lead – Stefano Alini - Technical team Lead

09:45: "Microsoft Viva fundamentals and partner opportunity" - Chris Brown - Viva Insights Ecosystem Lead for EMEA & Guelay Vural - Viva Channel Sales Lead for EMEA

10:30: "Tips to build the integration with Dynamics 365 Business Central" – Giuseppe Russo - Partner Technical Architect



11:30: "What's new in Azure Data Platform and Al" - Guenda Sciancalepore e Pietro Brambati- Cloud Solution Architects

12:00: "What's new in App Modernization & DevOps" – Lorenzo Barbieri e Daniela Tomoiaga - Cloud Solution Architects

12:45: Q&A e chiusura Innovation Morning