

A futuristic hallway with a grid overlay and a dark doorway at the end. The hallway is composed of light blue and white panels, creating a grid pattern. The floor is highly reflective, mirroring the ceiling and walls. At the end of the hallway, there is a dark doorway with some faint lights and a sign that says "Exit". The overall atmosphere is clean, modern, and technological.

NDR

The Artificial Intelligence Conference

June 7th, Iasi, Romania



NDR

Building intelligent applications with A.I. technologies

Stefano Tempesta

**COGNITIVE
SERVICES**

**MACHINE
LEARNING**

**CORTANA
INTELLIGENCE**

**BOT
FRAMEWORK**

AI.



@stefanotempesta



/in/stefanotempesta



Microsoft®
Regional Director





NDR

Online Payment Fraud Detection

Timestamp	Client	Description	Country	Amount
01-Jan	Mike Randall	Petrol	Ireland	€ 50.00
04-Jan	Mike Randall	Some products	Ireland	€ 80.00
07-Jan	Mike Randall	Parking	Ireland	€ 4.00
10-Jan	Mike Randall	Shopping	Ireland	€ 120.00
13-Jan	Mike Randall	Petrol	Ireland	€ 60.00
16-Jan	Mike Randall	Amazon	Ireland	€ 45.00
19-Jan	Mike Randall	Some products	Ireland	€ 39.00
22-Jan	Mike Randall	Parking	Ireland	€ 6.00
25-Jan	Mike Randall	Shopping	Ireland	€ 100.00
28-Jan	Mike Randall	Some products	Ireland	€ 30.00
31-Jan	Mike Randall	Petrol	Ireland	€ 55.00

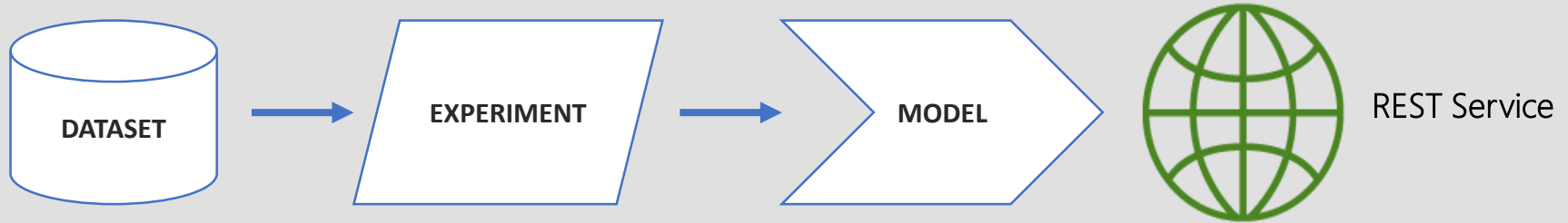
Timestamp	Client	Description	Country	Amount
01-Jan	Mike Randall	Amazon	Ireland	€ 296.00
04-Jan	Johnny McTick	Amazon	Ireland	€ 32.00
07-Jan	Johnny McTick	Amazon	Ireland	€ 120.00
10-Jan	Mike Randall	Amazon	Ireland	€ 104.00
13-Jan	Johnny McTick	Amazon	Ireland	€ 271.00
16-Jan	Brian O'Connor	Amazon	Ireland	€ 249.00
19-Jan	Brian O'Connor	Amazon	Ireland	€ 288.00
22-Jan	Johnny McTick	Amazon	Ireland	€ 193.00
25-Jan	Brian O'Connor	Amazon	Ireland	€ 97.00
28-Jan	Mike Randall	Amazon	Ireland	€ 85.00
31-Jan	Gil Tuck	Amazon	Ireland	€ 251.00

VISA handles 2000 transactions / sec >170M tpd

24-Feb	Mike Randall	Shopping	Ireland	€ 120.00
27-Feb	Mike Randall	Shopping	Ireland	€ 205.00
02-Mar	Mike Randall	Some products	Ireland	€ 90.00
05-Mar	Mike Randall	Some products	Ireland	€ 70.00
08-Mar	Mike Randall	Petrol	Ireland	€ 40.00
11-Mar	Mike Randall	Parking	Ireland	€ 9.00
14-Mar	Mike Randall	Parking	Ireland	€ 8.00
17-Mar	Mike Randall	Petrol	Ireland	€ 40.00
20-Mar	Mike Randall	Shopping	Ireland	€ 150.00
23-Mar	Mike Randall	Some products	Ireland	€ 40.00
26-Mar	Mike Randall	Some products	Ireland	€ 40.00
29-Mar	Mike Randall	Petrol	Ireland	€ 40.00
01-Apr	Mike Randall	Shopping	Ireland	€ 100.00
04-Apr	Mike Randall	Petrol	Ireland	€ 60.00
07-Apr	Mike Randall	Some products	Ireland	€ 230.00
10-Apr	Mike Randall	Some products	Ireland	€ 190.00
13-Apr	Mike Randall	Petrol	Ireland	€ 50.00
16-Apr	Mike Randall	Parking	Ireland	€ 6.00
19-Apr	Mike Randall	Electronics	Kazakistan	€ 2,000.00
22-Apr	Mike Randall	Petrol	Ireland	€ 60.00
25-Apr	Mike Randall	Some products	Ireland	€ 90.00
28-Apr	Mike Randall	Amazon	Ireland	€ 40.00
01-May	Mike Randall	Some products	Ireland	€ 20.00
04-May	Mike Randall	Some products	Ireland	€ 40.00
07-May	Mike Randall	Some products	Ireland	€ 70.00
10-May	Mike Randall	Shopping	Ireland	€ 140.00
13-May	Mike Randall	Parking	Ireland	€ 5.00
16-May	Mike Randall	Parking	Ireland	€ 8.00
19-May	Mike Randall	Flight tickets	Ireland	€ 300.00
22-May	Mike Randall	Petrol	Ireland	€ 50.00
25-May	Mike Randall	Shopping	Ireland	€ 100.00

24-Feb	Gil Tuck	Amazon	Ireland	€ 257.00
27-Feb	Johnny McTick	Amazon	Ireland	€ 99.00
02-Mar	Mike Randall	Amazon	Ireland	€ 136.00
05-Mar	Brian O'Connor	Amazon	Ireland	€ 85.00
08-Mar	Gil Tuck	Amazon	Ireland	€ 256.00
11-Mar	Johnny McTick	Amazon	Ireland	€ 121.00
14-Mar	Brian O'Connor	Amazon	Ireland	€ 195.00
17-Mar	Mike Randall	Amazon	Ireland	€ 174.00
20-Mar	Gil Tuck	Amazon	Ireland	€ 249.00
23-Mar	Johnny McTick	Amazon	Ireland	€ 38.00
26-Mar	Brian O'Connor	Amazon	Ireland	€ 100.00
29-Mar	Mike Randall	Amazon	Ireland	€ 229.00
01-Apr	Gil Tuck	Amazon	Ireland	€ 169.00
04-Apr	Johnny McTick	Amazon	Ireland	€ 109.00
07-Apr	Brian O'Connor	Amazon	Ireland	€ 146.00
10-Apr	Mike Randall	Amazon	Ireland	€ 66.00
13-Apr	Johnny McTick	Amazon	Ireland	€ 259.00
16-Apr	Gil Tuck	Amazon	Ireland	€ 189.00
19-Apr	Brian O'Connor	Amazon	Ireland	€ 188.00
22-Apr	Johnny McTick	Amazon	Ireland	€ 166.00
22-Apr	Johnny McTick	Amazon	Nigeria	€ 74.00
22-Apr	Johnny McTick	Amazon	Ireland	€ 63.00
01-May	Brian O'Connor	Amazon	Ireland	€ 105.00
04-May	Johnny McTick	Amazon	Ireland	€ 82.00
07-May	Mike Randall	Amazon	Ireland	€ 243.00
10-May	Brian O'Connor	Amazon	Ireland	€ 56.00
13-May	Gil Tuck	Amazon	Ireland	€ 132.00
16-May	Johnny McTick	Amazon	Ireland	€ 136.00
19-May	Mike Randall	Amazon	Ireland	€ 187.00
22-May	Brian O'Connor	Amazon	Ireland	€ 292.00
25-May	Johnny McTick	Amazon	Ireland	€ 122.00

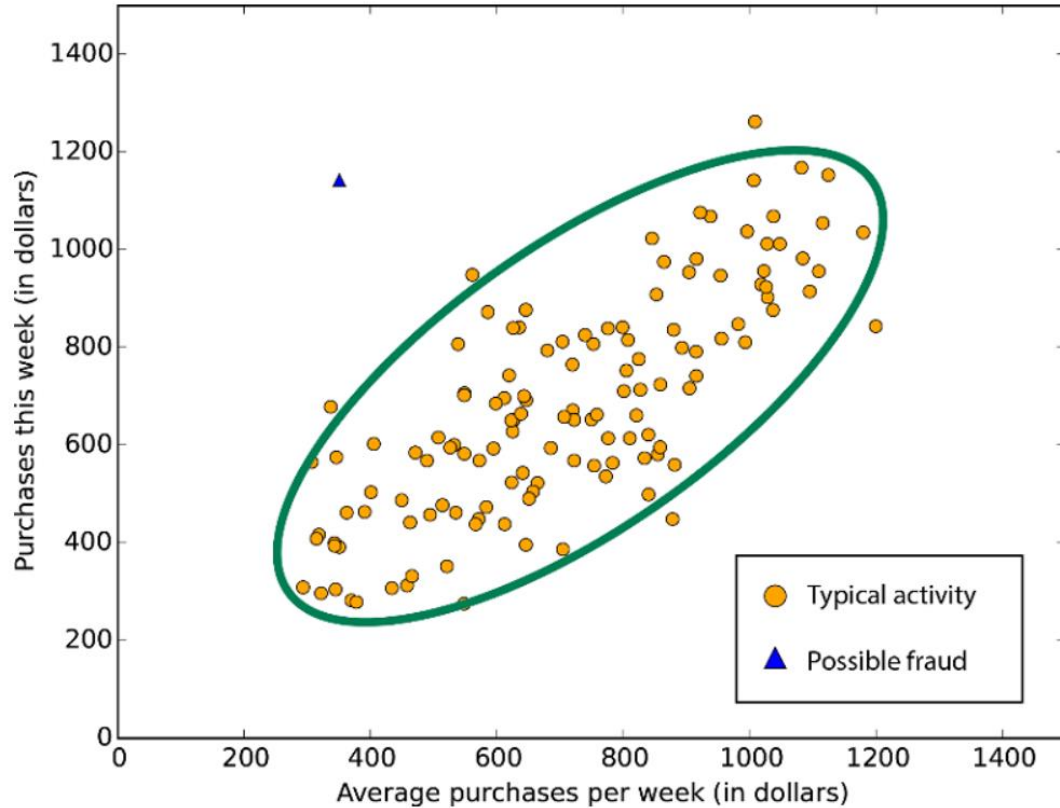
Azure Machine Learning



- Sentiment Analysis
- Demand Estimation

- Recommendations
- Outcome Prediction

Anomaly Detection





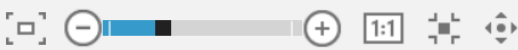
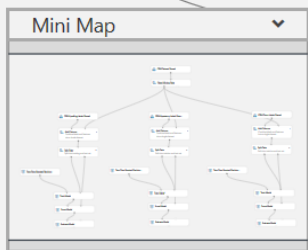
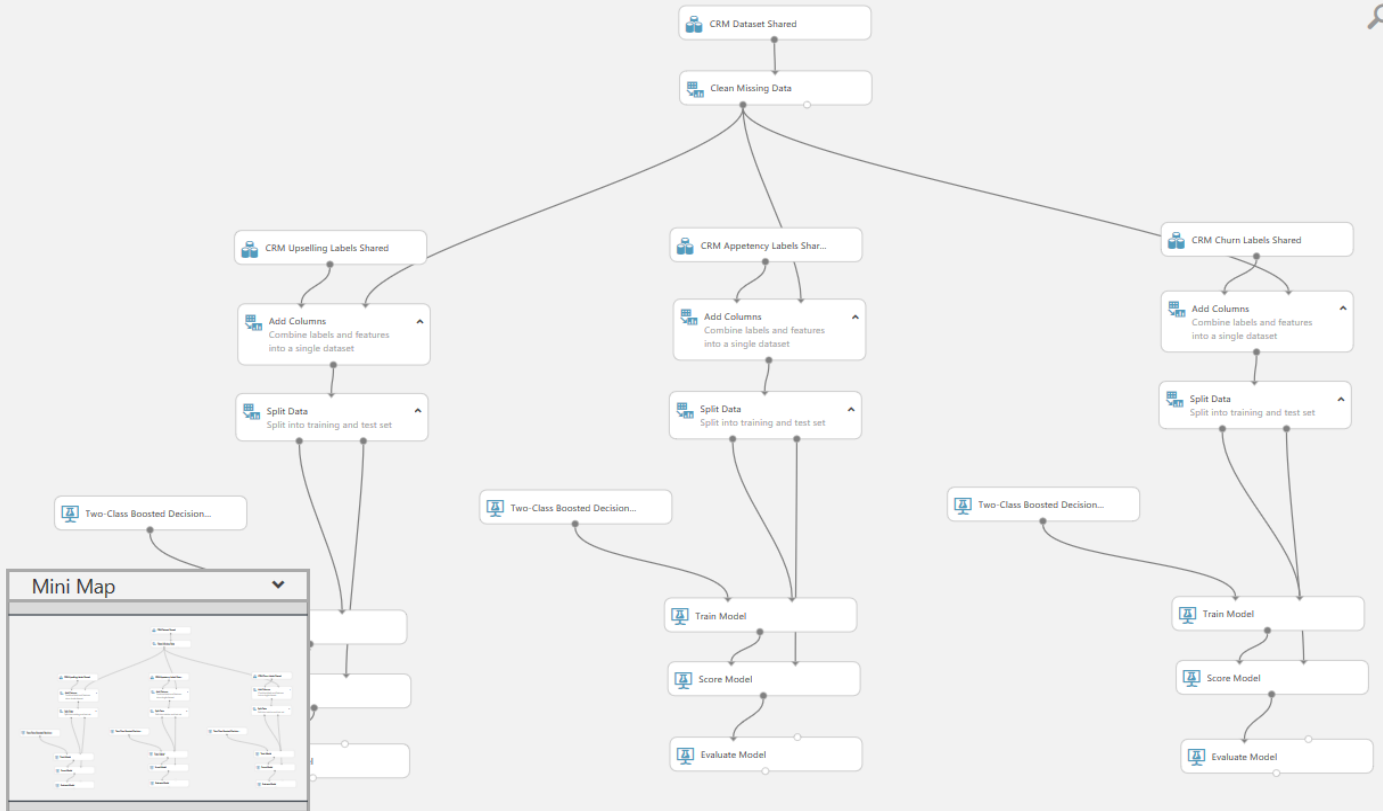
Search experiment items

- ▶ Saved Datasets
- ▶ Trained Models
- ▶ Data Format Conversions
- ▶ Data Input and Output
- ▶ Data Transformation
- ▶ Feature Selection
- ▶ Machine Learning
- ▶ OpenCV Library Modules
- ▶ Python Language Modules
- ▶ R Language Modules
- ▶ Statistical Functions
- ▶ Text Analytics
- ▶ Web Service
- ▶ Deprecated

Binary Classification: Customer relationship prediction

In draft

Draft saved at 3:41:33 PM





NDR

Automatic Image Classification

Cognitive Services



Vision

Image-processing algorithms to smartly identify, caption and moderate your pictures.



Knowledge

Map complex information and data in order to solve tasks such as intelligent recommendations and semantic search.



Language

Allow your apps to process natural language with pre-built scripts, evaluate sentiment and learn how to recognize what users want.



Speech

Convert spoken audio into text, use voice for verification, or add speaker recognition to your app.



Search

Add Bing Search APIs to your apps and harness the ability to comb billions of webpages, images, videos, and news with a single API call.

Technologies

Cognitive Services → Vision Recognition

OneDrive for Business

Azure Logic App



Files > Pictures

📄 Name ↑ ↓

📁 🚗 Cars

📁 🌻 Flowers

📁 👤 People



NDR

Travel Recommendation & Support

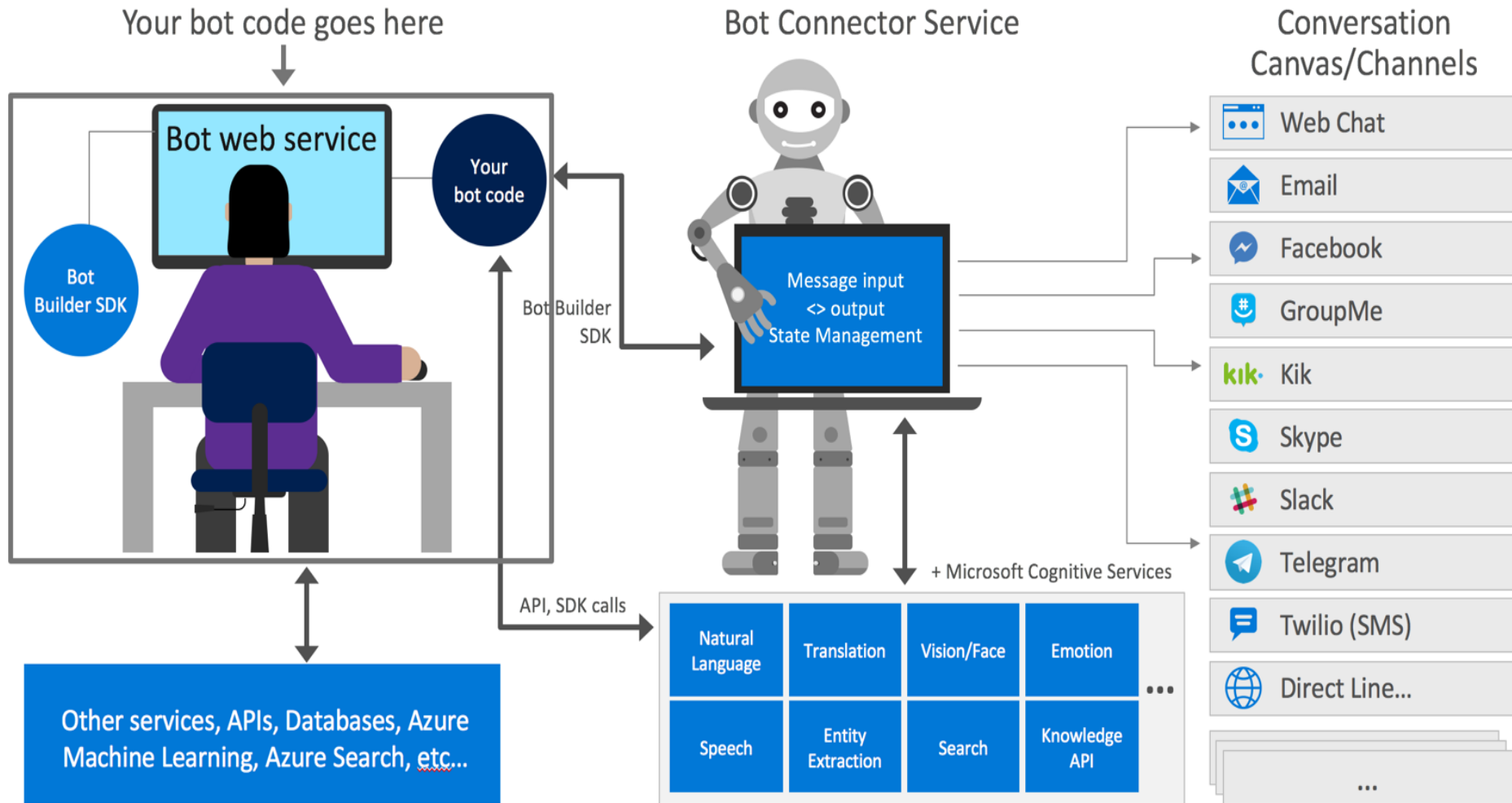
Bot Framework

Programming Languages

- Bot Builder SDK for .NET
- Bot Builder SDK for Node.js
- REST API (Azure Bot Service)

Programming Approaches

- FormFlow
- Dialogs
- JSON Schema
- Q&A Maker www.qnamaker.ai
- LUIS www.luis.ai





@stefanotempesta

/in/stefanotempesta



NDR

The Artificial Intelligence Conference

June 7th, Iasi, Romania

Muțumesc