spyrosoft

Shaping technology, *together*

Spyrosoft Group

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AGENDA

no	topic
1	**About Spyrosoft Group**
2	**Case studies**

SPYROSOFT GROUP

1ST fastest growing technology company

In Europe in 2021

FT FINANCIAL TIMES | 1000 EUROPE'S FASTEST GROWING COMPANIES | 2022 & 2023

statista

KEY FACTS ABOUT SPYROSOFT GROUP

1500+ employees

Listed on Warsaw Stock Exchange

69M USD in 2022

150+ clients

Our offices

Argentina
- Buenos Aires

Croatia
- Zagreb
- Osijek

Germany
- Stuttgart
- Brunswick

India
- Chennai

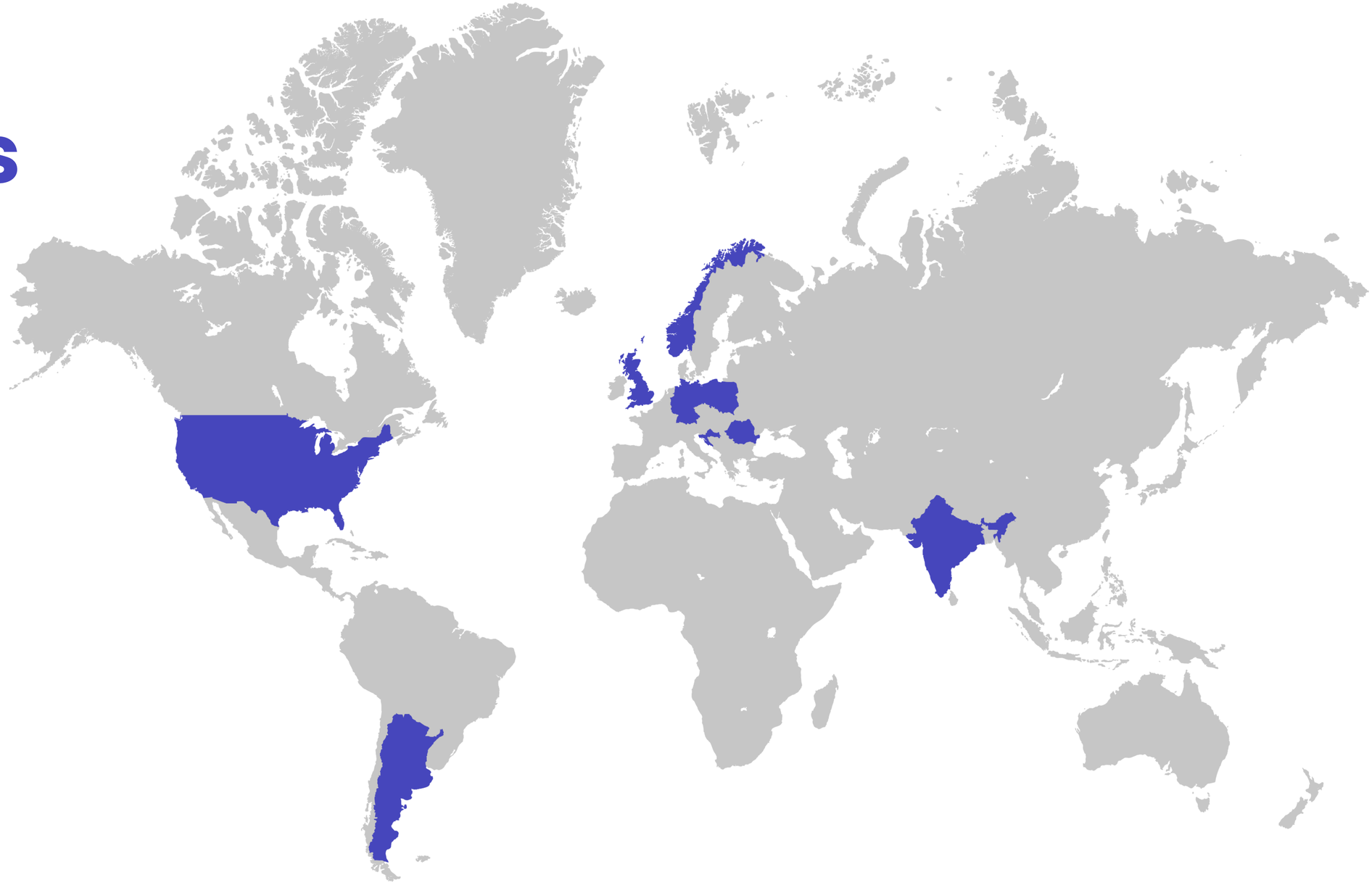
Norway
- Bergen

Poland
- Wroclaw
- Cracow
- Warsaw
- Bialystok
- Szczecin
- Lodz

Romania
- Timisoara

UK
- Edinburgh
- Bournemouth

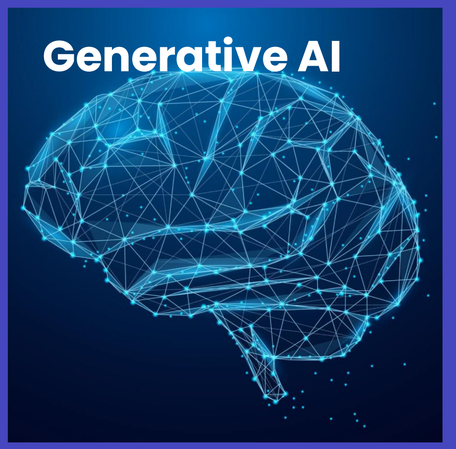
USA
- Ann Arbor



Our expertise:

- Automotive
- Healthcare & Life Sciences
- Employee Experience & Education
- Industry 4.0
- Financial Services
- Media
- Geospatial Services
- Robotics

Our artificial intelligence solutions



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Case studies

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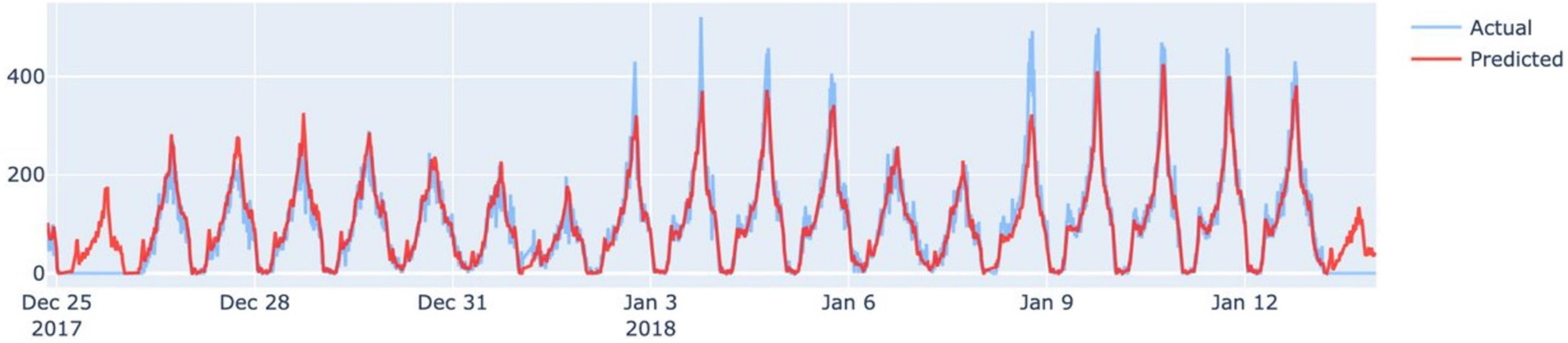
Smart city concept

CASE STUDY

Smart city analytics - Bus entries

Time-series forecasting based on Transport for London publicly available datasets:

- A model of bus passenger movements using travel card data
- Data exploration and preparation phase with a flexible data modelling pipeline
- Implementation of multiple models: baseline, Facebook Prophet time series model, LASSO-based
- 18% points improvement compared to baseline model for final LASSO-based model

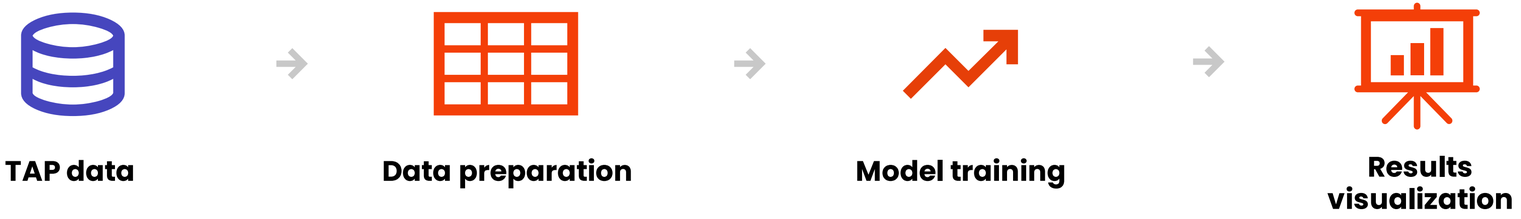


CASE STUDY

Smart city analytics - Bus arrival prediction

Time-series forecasting based on Transport for London publicly available datasets:

- Analyzed the accuracy of current predictions made by the city of London and visualized our predictions for the London bus stops
- Our machine learning model trained on a small amount of data (~500 records) achieved similar results to London's system
- Analysis of bus stops that are usually most delayed



Technology

python PROPHET NumPy plotly pandas scikit learn

CASE STUDY

Smart Home system – Sinum Cloud

Product description

Tech Sterowniki, a company from Poland that main area of expertise was in semiconductor component manufacturing, started a new digital strategy. Part of it was to create a digital product for residential market. Sinum Cloud is product that allows user to control and monitor various devices like thermostats, lights, blinds, air conditioning and others via web and mobile application.

Business needs

Smart Home systems is a growing market in Europe and globally. Tech Sterowniki recognized that trend and started a new line of devices targeting the residential market. However, as a company focused on hardware and embedded software engineering, they needed support of a partner experienced in creating digital products.

Our services and responsibilities

Cooperation started with consulting services. The goal was to create a robust architecture and evaluate usage of cloud services. Spyrosoft's final recommendation and the Clients' decision was to create a hybrid IoT backend partially based on Azure. In the delivery phase, Spyrosoft was responsible for full application lifecycle process, building an infrastructure, backend, web and mobile applications.

Technology

Azure docker Java React JS React Native

CONTACT

Thank you

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