

GoodAI Applied Stories

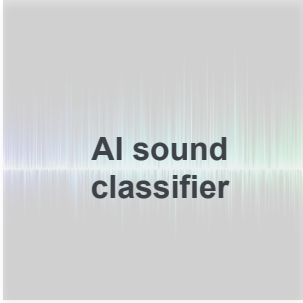


Our Successes



AI diamond expert

A large, faceted diamond is the central focus, surrounded by several smaller diamonds of various sizes. The background is a light, neutral color.



AI sound classifier

A series of vertical lines of varying heights and colors (green, blue, red) are set against a dark background, representing sound waves or data points.



Manufacturing quality control

A close-up view of industrial machinery, possibly a lathe or mill, with a metal part being processed. The scene is dimly lit, focusing on the machine's components.



Customer support chatbot

A hand holding a smartphone with a chatbot interface displayed on the screen. The interface shows a conversation with a green bubble and a blue bubble.



FAQ chatbot

A hand holding a smartphone with a chatbot interface displayed on the screen. The interface shows a conversation with a green bubble and a blue bubble.



Building Analytics

A modern office interior with people working at desks. Overlaid on the image are several rectangular boxes labeled 'Person 1' through 'Person 8', representing data points or analytics.




Pipeline leak prediction

A close-up of a gas burner with a blue flame. The burner is set against a dark background, and the flame is the central focus.



Consumer loan predictor

Two hands shaking in a firm grip, symbolizing a deal or agreement. The background is a blurred office setting.



Adverse reaction reporting

A collection of yellow and white pills scattered on a light blue background.



PDF classifier

A person's hands typing on a laptop keyboard. The laptop screen displays a document with text and images, representing a PDF classifier.



Property valuation tool

A 3D rendering of a house, a bar chart with three bars of different heights, a calculator, and some papers, representing a property valuation tool.



Find out more

A large, grey arrow pointing to the right, with the text 'Find out more' inside it.



Ringo: the world's first AI diamond assistant

Background

Diamond trader, The Diamond Pro, approached us with the desire to provide buyers an efficient way to choose the perfect stone for their engagement ring or a memorable piece of jewelry.

The problem

It wasn't just about rating the cleanest diamond for the buyer. Such diamonds can be very costly, while a less clean stone might bring just as much satisfaction to the naked eye. Instead, the goal was to enable the buyer to choose the right balance of quality, visual appeal, and price. Such balance is not easy to deduce from diamond certificates without expert help.

Our solution

We used cutting-edge image recognition technology to create the world's first AI diamond assistant. The tool is more precise than using human experts and saves The Diamond Pro time and money.

Solution features

- AI Model development
- Web frontend, UX/UI design and development
- Backend development

Ringo: World's First AI Diamond Selecting Tool



WE LOOKED AT TENS OF THOUSANDS DIAMONDS TO FIND THE ONE FOR YOU

The interface displays three diamond options side-by-side. The 'RECOMMENDED' option is highlighted with a green bar at the top. Each option includes a diamond image, an 'EYE CLEAN?' status with a percentage, a price, a carat weight, and a table of specifications (Color, Clarity, Fluorescence). Below the diamonds is a button labeled 'OTHER CANDIDATES'.

QUESTIONABLE	RECOMMENDED	NOT RECOMMENDED
EYE CLEAN? Questionable 87%	EYE CLEAN? Yes 98%	EYE CLEAN? No 3%
Your Diamond might be eye clean, have a Diamond Pro review it for you.	Have a Diamond Pro review it for you.	Ask us to review why this diamond is rejected.
PRICE \$ 1,340 CARAT WEIGHT 0.60	PRICE \$ 1,600 CARAT WEIGHT 0.61	PRICE \$ 1,870 CARAT WEIGHT 0.71
COLOR I CLARITY SI2 FLUORESCENCE NN	COLOR I CLARITY VS2 FLUORESCENCE NN	COLOR I CLARITY SI2 FLUORESCENCE NN

Here are your results. If you want someone a little more human to help you, feel free to [contact us](#). My teachers will be happy to help you.



Sound Classifier for ŠKODA AUTO DigiLab

Background

ŠKODA AUTO DigiLab needed a tool that could be used by their after sales team, in order to classify very specific sounds within their cars.

The problem

The problem with sound classifier solutions on the market is that they require huge amounts of data in order to function accurately. We did not have a huge amount of data, and it was of varying quality.

Our solution

In two months of development we created a solution using state-of-the-art AI models which works not only on small datasets, but also ones of low quality to classify sounds with an accuracy of over 95%.

Solution features

- AI Model development
- Web dashboard frontend, UX/UI design and development
- Backend development



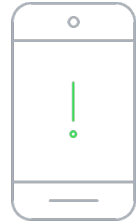
Sound emitted
by source



Sound recorded
and collected
by a device,
e.g. mobile phone



AI: Analysis+Learning



GoodAI Sound
returns result
from the analysis

ŠKODA
AUTO DigiLab



Quality Control Check for a manufacturing company

Background

Our client needed a tool that could identify whether or not accessories had been installed on a production line.

The problem

It was impossible without human intervention to determine whether or not products had been assembled correctly on the finished product and mistakes were very costly.

Our solution

We created a cutting-edge AI model that uses object localization to spot whether accessories have been installed or not, removing the need for human intervention and increasing the accuracy of the assembly line.

Solution features

- AI Model development
- Web dashboard frontend, UX/UI design and development
- Backend development

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Chatbot virtual assistant for T-Mobile Czech Republic and Slovak Telekom



Background

T-Mobile Czech Republic and Slovak Telekom want to create a chatbot engine which will improve their customer services, with the ultimate aim of not just answering customers questions, but solving their problems, 24/7.

The problem

They need a chatbot with a unique understanding of Czech and Slovak languages.

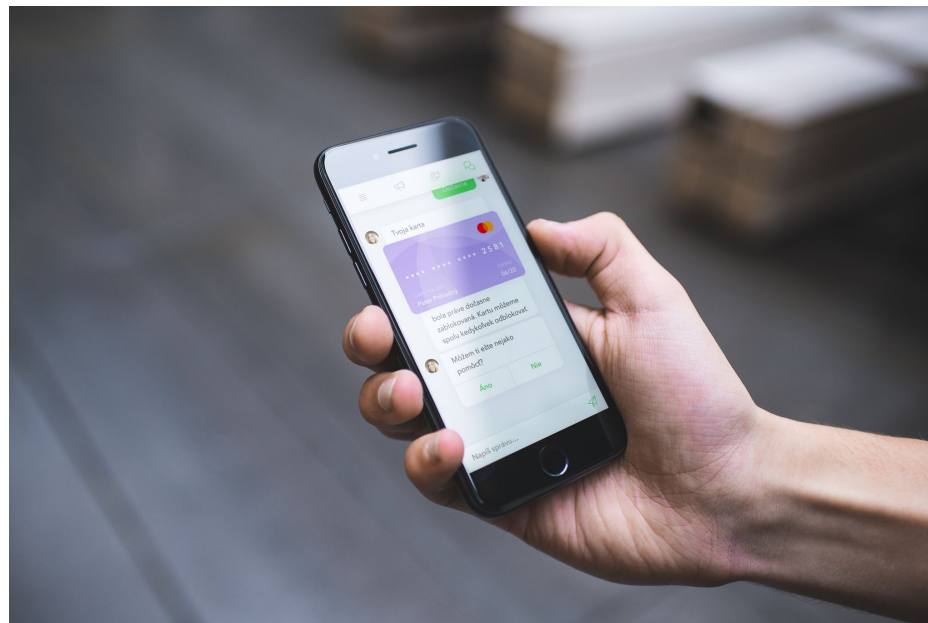
Our solution

We created a bespoke chatbot to answer simple questions and are continuing development to enable it to deal with more complex solutions in the future. Answering questions automatically gives front-line employees more time to focus on high value-added work.

Solution features

- GoodAI's Goodbot NLP technology

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FAQ chatbot for Home Credit

Background

Home Credit needed a tool which could help answer the questions being asked most frequently.

The problem

People were calling Home Credit to ask questions which was meaning staff were often occupied answering the same question many times.

Our solution

Goodbot is GoodAI's NLP technology fully developed in-house which could help answer customers' questions. It was trained specifically on the "language of the companies" in order to make it even more accurate.

Solution features

- GoodAI's Goodbot NLP technology

The logo for Home Credit, featuring the words "HOME" and "CREDIT" stacked vertically in a bold, red, sans-serif font. The letter "O" in "HOME" is stylized with a white circle inside.

Building Analytics for a commercial real estate company

Background

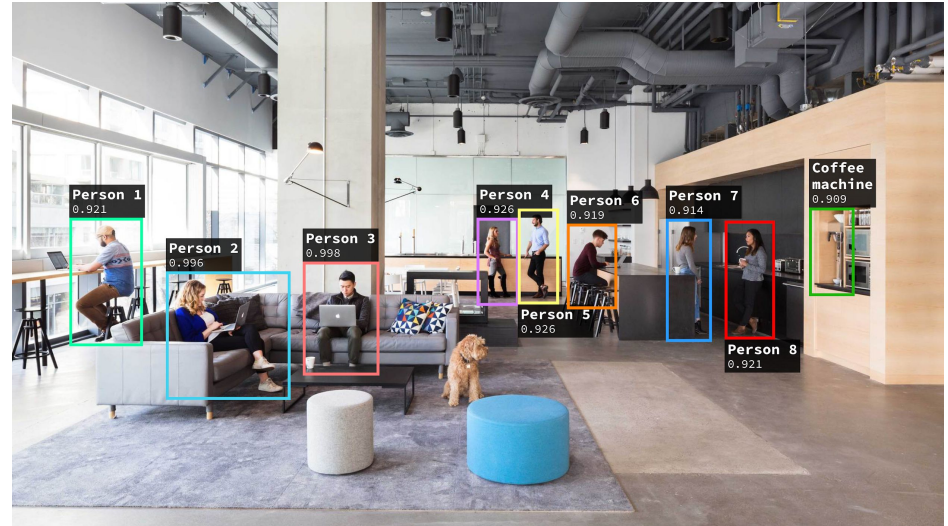
Our client aims to use technology to better understand how their buildings are used in order to get the most out of their properties in the long and short term.

The problem

Our client is an expert at creating buildings, but it is difficult to say exactly how people interact with each other and with the buildings. Commercial properties can start to look dated quickly, therefore our clients want to optimize workplaces in real time.

Our solution

We created a high-tech AI model that uses object localization to detect and count people in order to indicate how they are using the building and interacting with each other. The solution acts like a “Google analytics” for people, allowing our client to use data to optimize the design of their properties.



Solution features

- AI Model development
- Web dashboard frontend, UX/UI design and development
- Backend development



Pipe leaks prediction for innogy CZ

Background

Innogy, a large gas company, approached us to see if we could improve their maintenance planning procedures.

The problem

Fixing broken gas pipes is extremely costly therefore, the more accurate the maintenance plan the easier it is to avoid broken pipelines.

Our solution

We created an AI solution which assesses which pipelines are more prone to breaking and therefore which are most critical to replace or repair.

Solution features

- AI Model development



Consumer Loan Acceptance for Equa bank

Background

Equa bank asked us to streamline their processes by designing a new method for predicting the acceptance rate on consumer loans.

The problem

It was difficult to assess the likelihood that a client would accept a consumer loan.

Our solution

We created a cutting-edge AI solution that used behavioral, economic, and financial data to help us predict more accurately whether someone would accept a loan. This allowed Equa bank to target their loans more efficiently.

Solution features

- AI Model development



Equa bank



Automated adverse reaction reporting solution for a large pharmacovigilance company

Background

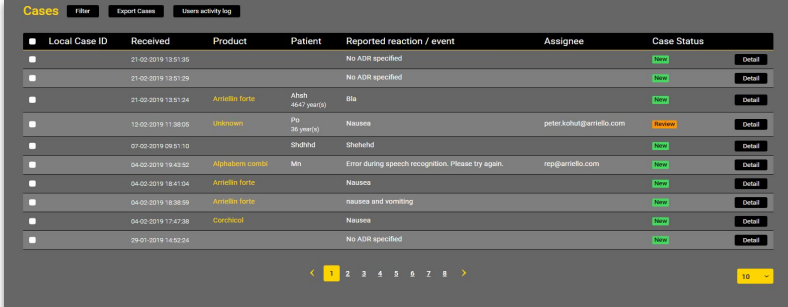
Monitoring and reporting the effects of medical drugs effectively is extremely important. Our client approached us with the aim of streamlining their reporting process and making it more accurate.

The problem

Reporting of side effects was not standardised, reports would come as SMSs, e-mails, phone calls, etc. Compiling this information into a usable format took many hours.

Our solution

Using NLP technology we were able to create a standardized system of automatic reporting and tracking. Users need to just dictate and fill in short forms, and the data is automatically collected in one place.



Local Case ID	Received	Product	Patient	Reported reaction / event	Assignee	Case Status
21-02-2019 13:51:35				No ADR specified		View Detail
21-02-2019 13:51:29				No ADR specified		View Detail
21-02-2019 13:51:24		Anzelin forte	Alhan (64.7 years)	Bila		View Detail
12-02-2019 11:38:05		Ustavon	Ph (35 years)	Nausea	peter.kohut@antello.com	View Detail
07-02-2019 09:51:10			Shahid	Shahid		View Detail
04-02-2019 19:43:32		alphabeta combi	Min	Error during speech recognition. Please try again.	rep@antello.com	View Detail
04-02-2019 18:41:04		Anzelin forte		Nausea		View Detail
04-02-2019 18:38:59		Anzelin forte		nausea and vomiting		View Detail
04-02-2019 17:47:38		Cardinal		Nausea		View Detail
29-01-2019 14:52:54				No ADR specified		View Detail

Solution features

- Mobile app design and dev
- Web dashboard frontend, UX/UI design and development
- Backend development



A pdf document classifier for innogy CZ

Background

Innogy CZ approached us with a task of classifying pdf documents in predefined classes so they could improve their back-office administration processes.

The problem

They receive and process tens of thousands of pdf documents daily and the classification of those documents is done manually by different departments and stakeholders throughout the company, which costs a lot of time and money.

Our solution

We developed a custom made state-of-the-art NLP solution which classifies pdf documents in a database, saving Innogy thousands of Euros weekly.

Solution features

- AI Model development
- Web dashboard frontend, UX/UI design and development
- Backend development

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Fleet performance monitoring for a large energy company

Background

A large energy provider approached us with a task to monitor performance of their fleet of vehicles in order to make them more efficient.

The problem

Maintenance personnel often need to be sent to customers' premises in order to deal with reported system failures and outages. It is important to be able to monitor the company vehicles to make sure they are being used efficiently and only visiting places on their working route. Deviations from work routes cost the company time and money.

Our solution

We developed a solution which analyzes the fleet performance on a weekly/monthly basis and determines whether the vehicles are being utilised to their maximum efficiency. The information is then available as an interactive report on a web dashboard.



Solution features

- Data analytics on fleet data
- Backend development
- Web dashboard frontend, UX/UI design and development



An automated property valuation tool for one of the largest Hungarian real estate companies

Background

One of the largest Hungarian real estate companies approached us with a task of creating an automated valuation model (AVM) which would outperform other tools in the market and could enable them to provide the highest customer experience and to ensure the best selling price.

The problem

Real estate agents staff is problematic, there is a high turnover and the professionalism level across agents is highly variable, therefore clients get highly variable experiences and the company has highly variable pricing negotiations outcomes.

Our solution

We are developing an AVM which provides price prediction models with high precision due to the use of new innovative predictors, such as localization and areas ratings taken from publicly available services. We are combining with advanced User Experience designs which combined, is enabling our client to increase revenues by increasing customer experience and creating new revenue streams.



Solution features

- AI Model development
- Mobile app design and dev
- Web dashboard frontend, UX/UI design and development
- Backend development



Visual Equipment Status Check for a production environment

Background

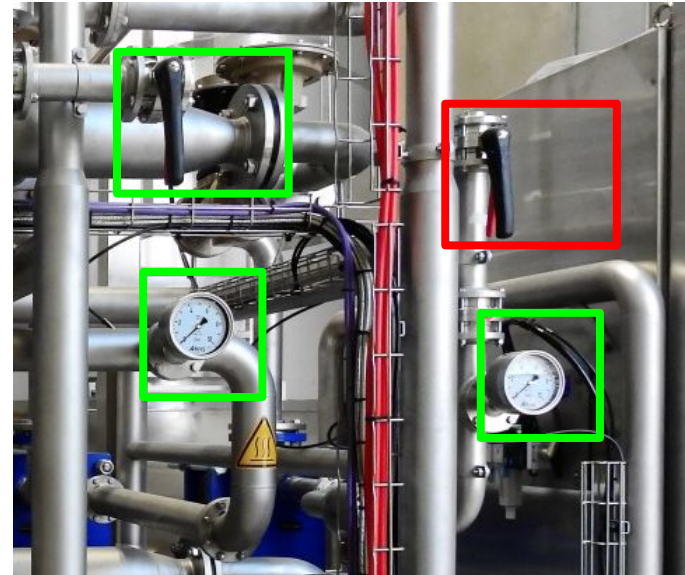
Our client needed a tool that could identify whether the equipment used in their production environment was in the correct configuration.

The problem

It was impossible without human checking to determine whether different types of valves were in correct configurations and if gauge readings were within accepted ranges.

Our solution

We created a robust and reusable AI solution that is able to check whether equipment controls are in the desired configurations and readings are in the required ranges, removing the need for human oversight and alerting immediately when a problem occurs, thus increasing reliability of the production environment.



Solution features

- AI Model development
- Web dashboard frontend, UX/UI design and development
- Backend development



This slide soon will be you!

Get in touch

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