asya

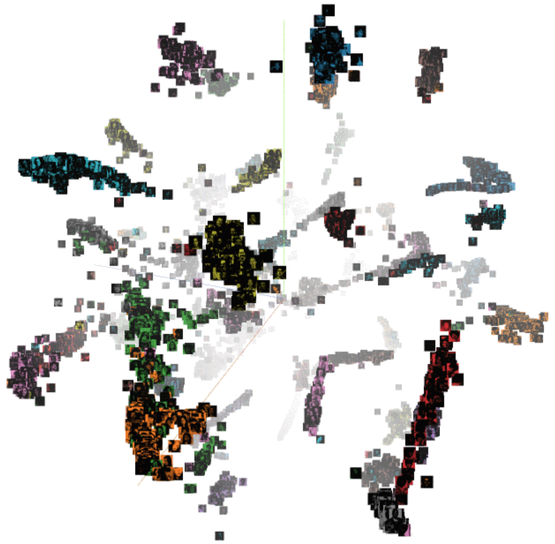
ting AI, software and design of the future.

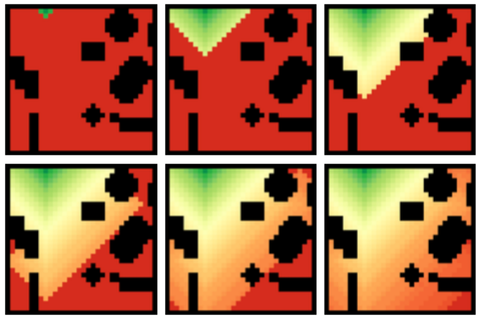
Look into the future

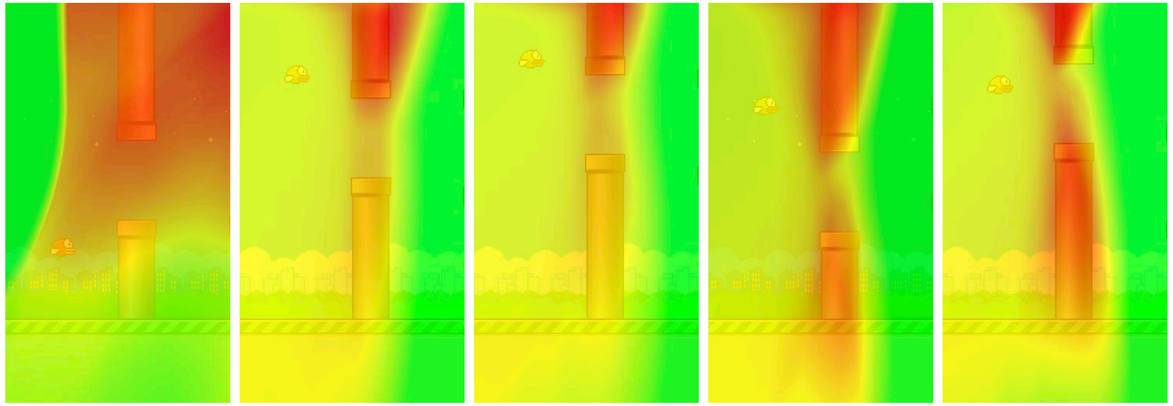
Team

30+ employees
Award-winning scientists and UX designers
20+ scientific publications

https://www.asya.ai/publications/







Over 20+ academic research project

Dr. Evalds Urtans has been leading BSc., MSc. and PhD. Students research projects for over 8 years in the domain of deep learning. Especially in Deep Metric Learning and zero-shot learning.

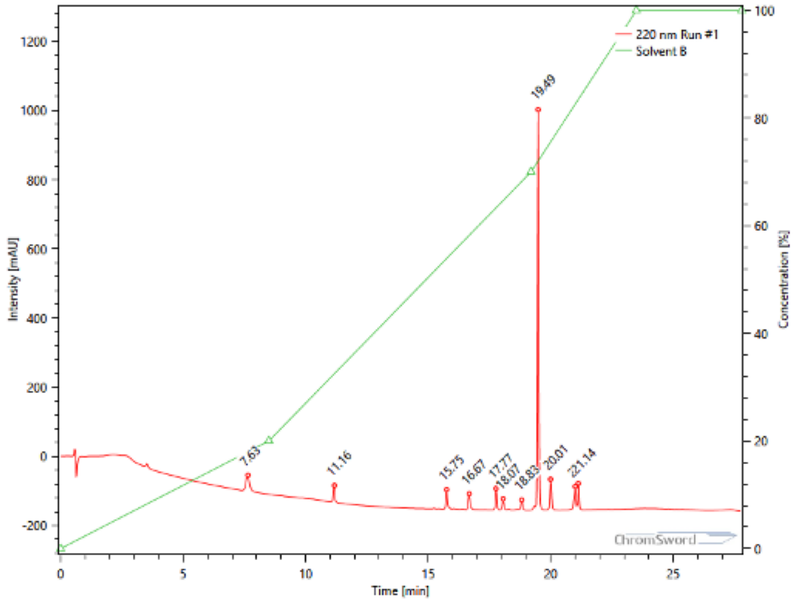
Comunity

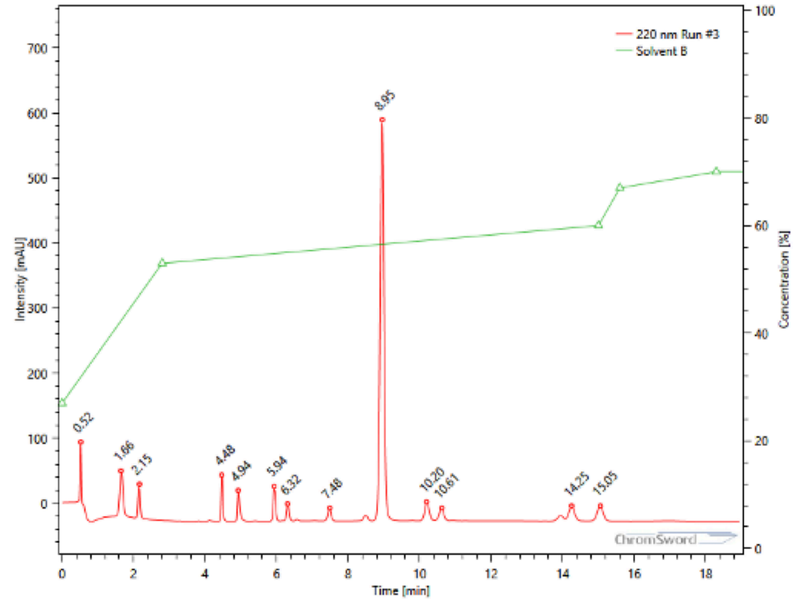
Data Science Latvia

Monthly AI paper reading meetups, gatherings for students from all research organizations in Latvia: RTU, LU, EDI, VeA, and more.

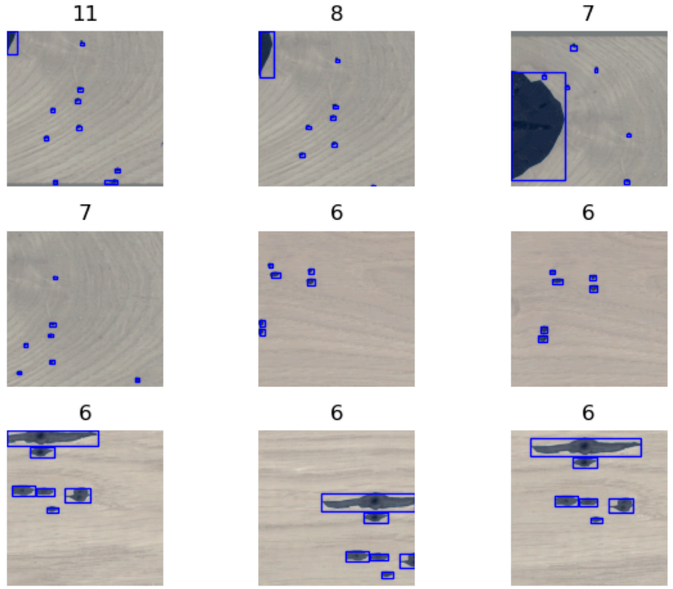
Project #1 – Solvent gradient optimization in Chromatography projects

AI models for finding solvent gradients to separate compounds in chromatography for analytical chemistry. Automatically executes experiments to reduce human resources from 2 weeks to 2 hours and achieve high-quality separation for unknown substances.
Partner: https://www.chromsword.com





Project #2 – Detection of defects in wooden planks for automatic cutter.



Successful project in cola with medium size company to obtain high-precision AI models for detecting defects in wooden planks to automatically plan cutting and manufacturing processes. 70-99% precision to various classes of damage.

Published BDAI 2022

Partner: http://www.zippyvision.com

Project #3 – Detection of damage for car rental service using photos.

Successful project to segment different types of defects in cars using mobile phone after returning them to the rent and before re-selling. Especially difficult problem, because even human labelers cannot distinguish between reflections and dents. 0.88 IoU for scratches, dents, chips, dirt, rust.
Partner: http://www.scopetechnology.com

Project #4 – Speech enhancement for microphone manufacturers.

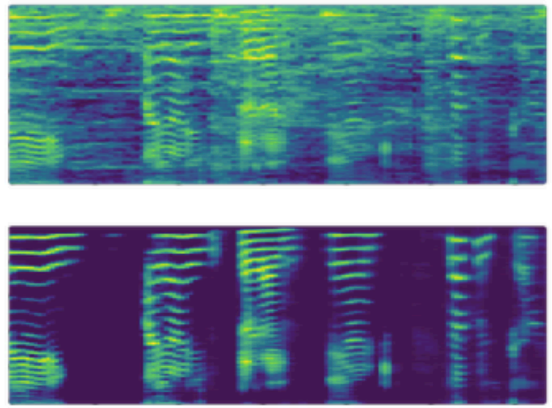
Successful project with one of the largest microphone manufacturers in the region to denoise the audio signal in real time using deep learning models. Models can remove noises like: Sounds of speaker's feedback, Keyboard clicking, Traffic, Sounds of children in background, Other mechanical noises.

asya.ai PESQ: 2.595

krisp.ai PESQ: 2.266 (funding 17m USD)

Partner: https://www.catchbox.com

Before (noisy audio)



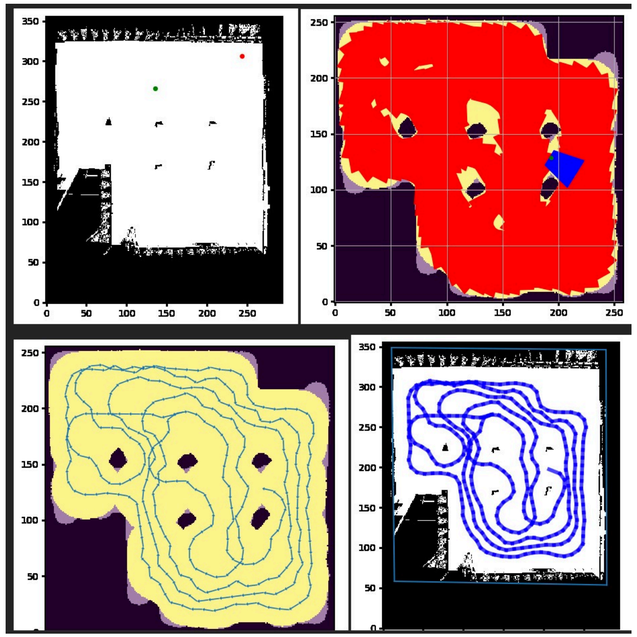
After (clean audio)

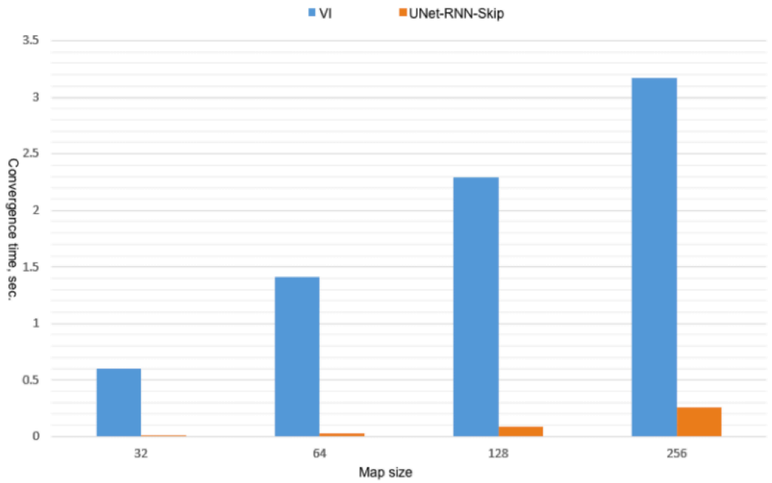
Finished projects

Project #5 – Coverage and path planning for industrial cleaning robots.

Models can autonomously explore environment and do value-based policy planning 10x faster than classical, non-deep learning algorithms. Coverage planning taking in account physical limitations of robot maneuverability.

Published ICoIAS 2020 (our IP)



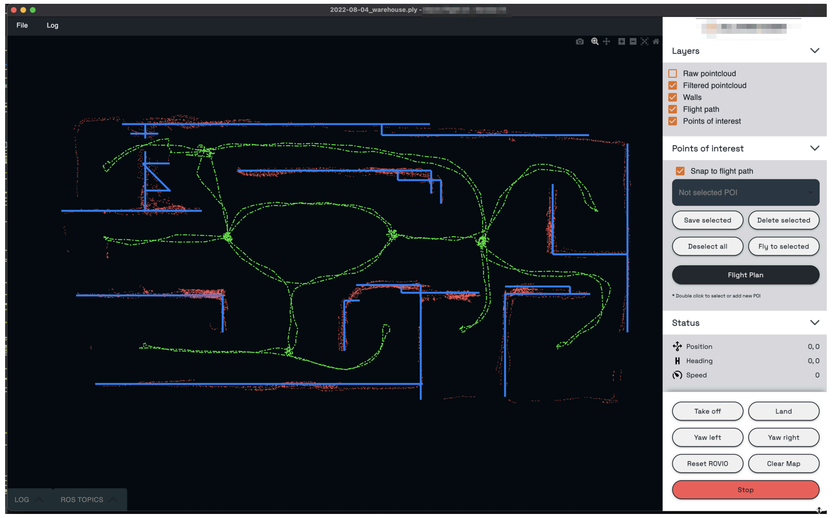


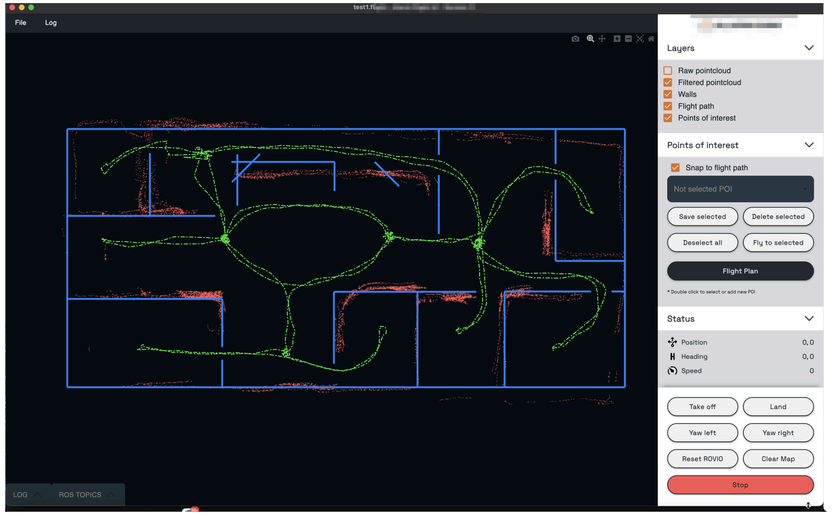
Finished projects

Project #6 – Point-cloud improvements using CycleGAN models.

Models that can fix poor point-cloud from poor hardware sensors into usable maps using CycleGAN type of models

Partner: NDA (USA company)



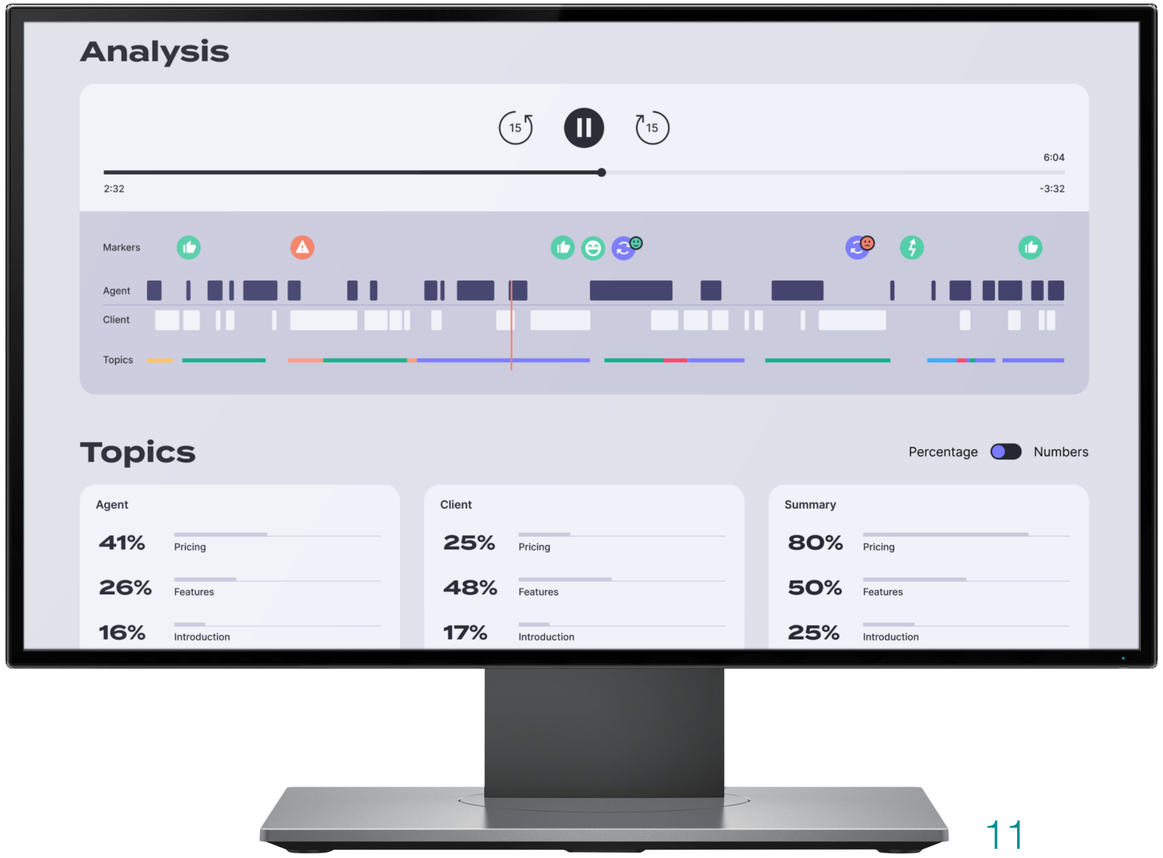


Project #5 – Analytics and motivation for sales force.

Pitch Patterns

What technology achieves:

- Monitoring and analyzing audio recordings of sales force
- Improving the effectiveness of verbal communications
- Training and performance evaluation of sales personnel
- Motivation for reaching KPIs



Pitch Patterns

See conversations

Manual process

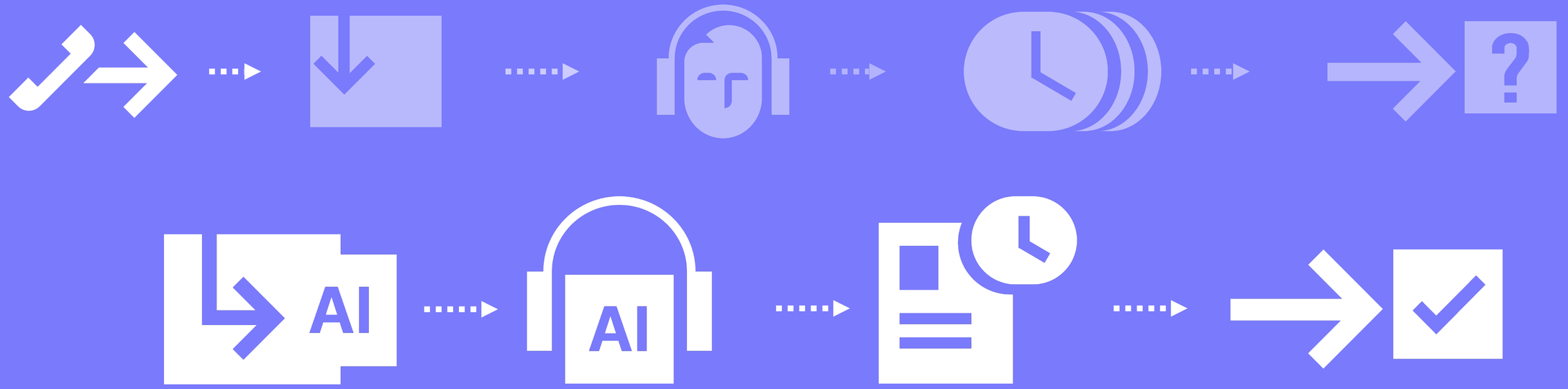
Video or audio call

Recordings

Manual selection takes time, not precise

Coaching, hard to measure impact, takes time

Automated process



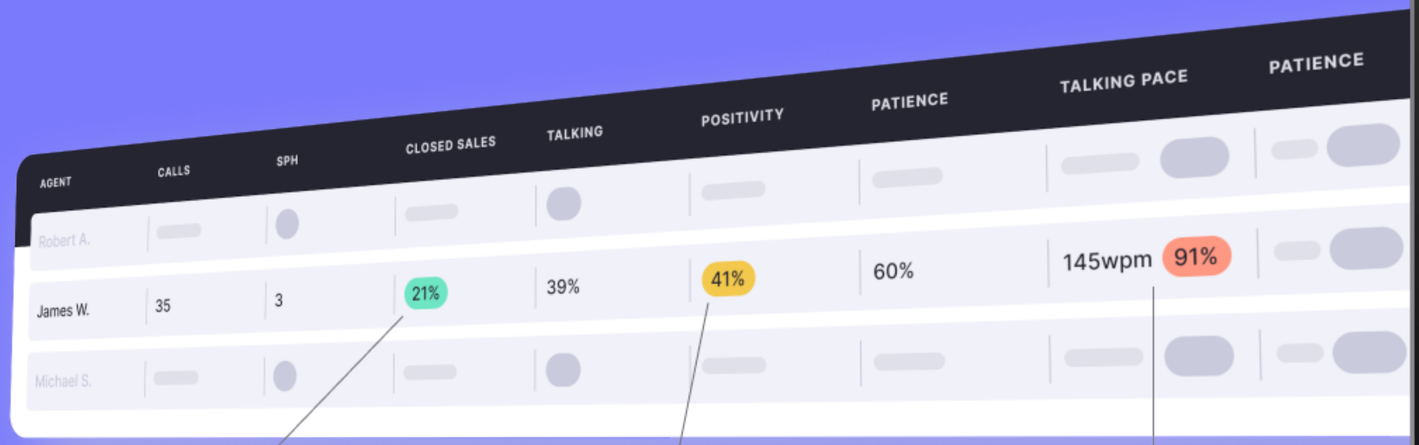
Video or audio call linked with CRM automatically

All recordings listened automatically

Calls flagged, reports generated automatically. Time saved.

Measurable process improved conversion rates.

Tracking soft-skills



Performance

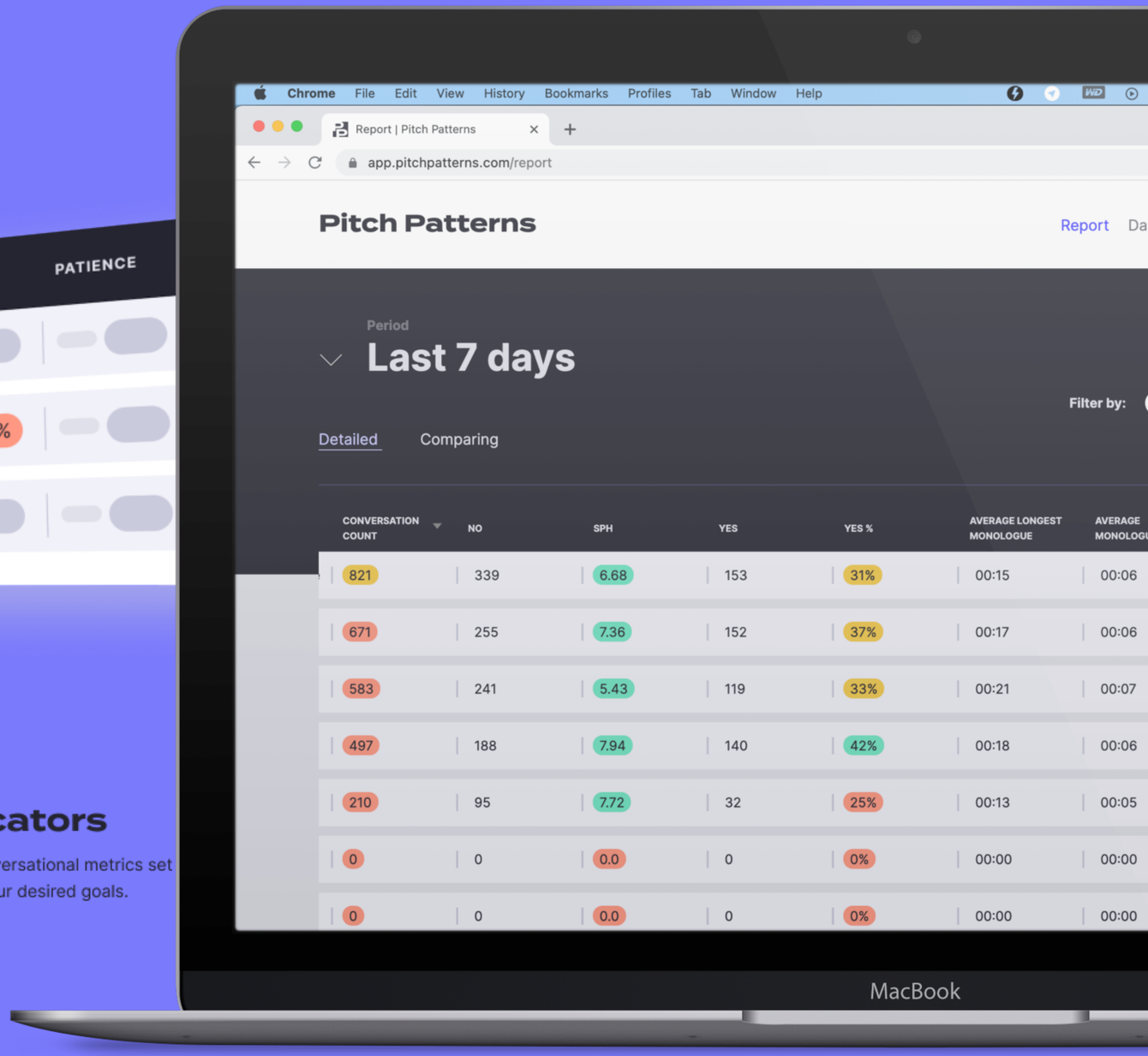
Check the performance of the whole sales team at one glance.

Metrics

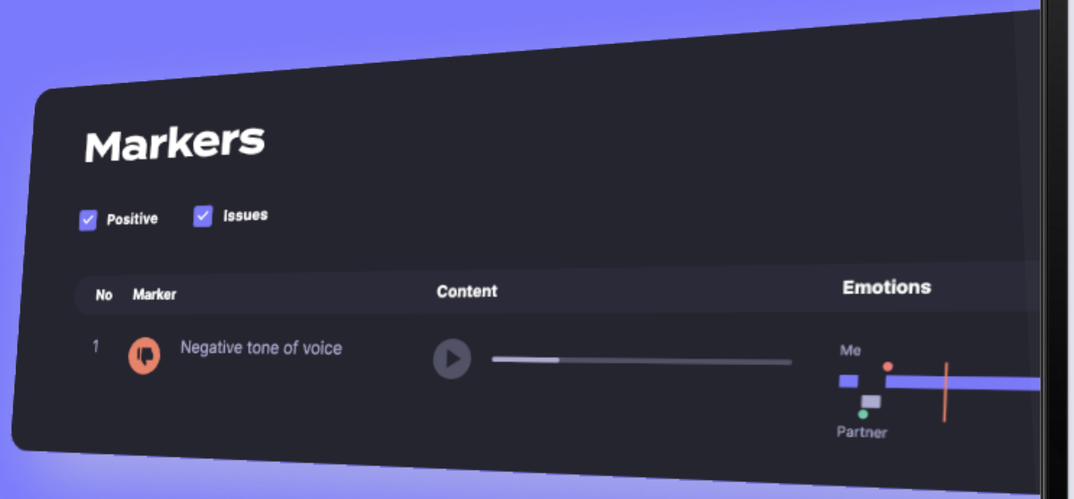
Check different type of key conversational metrics to find out what drives sales.

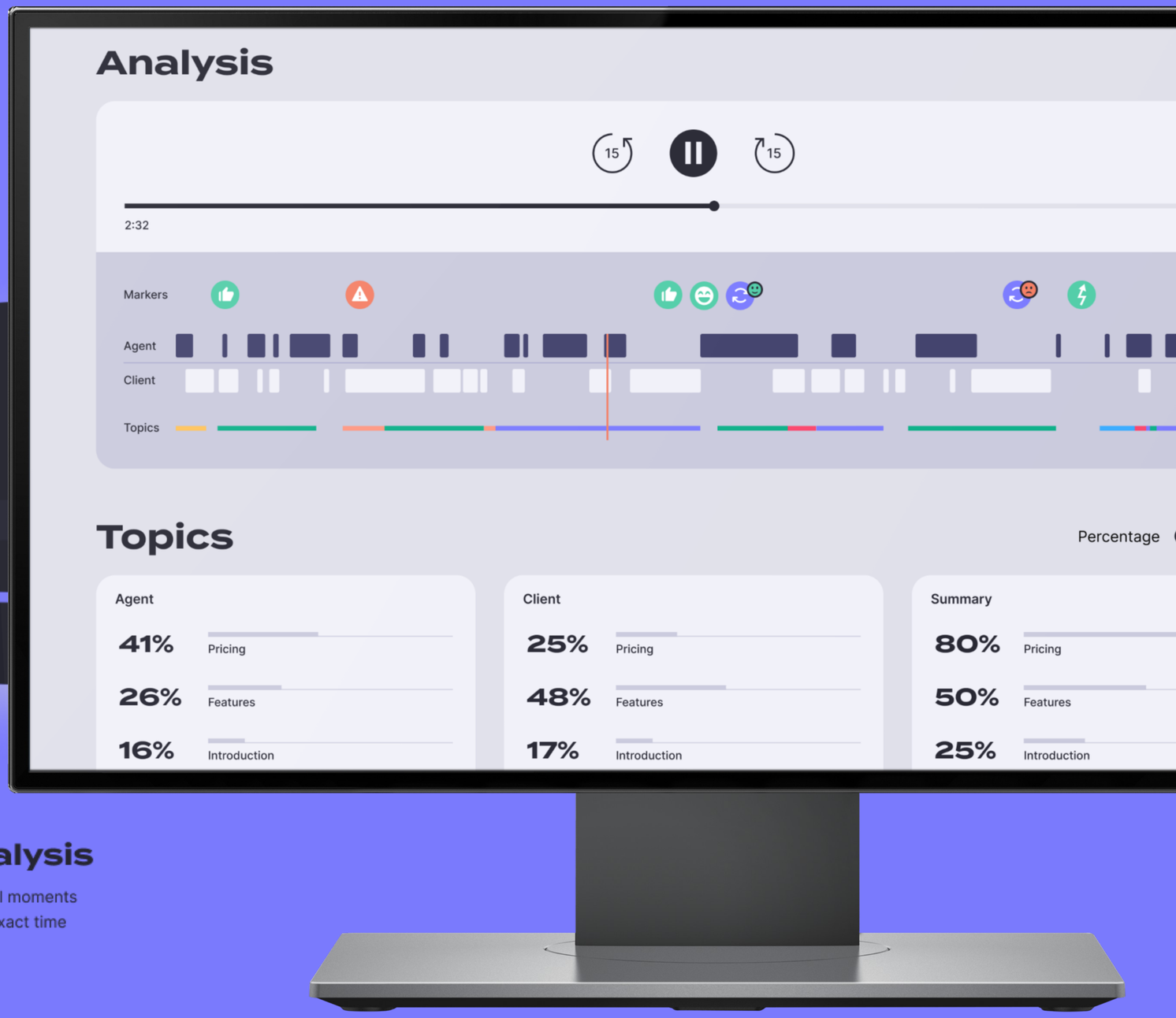
Indicators

Track conversational metrics set against your desired goals.



Tracking hard-skills





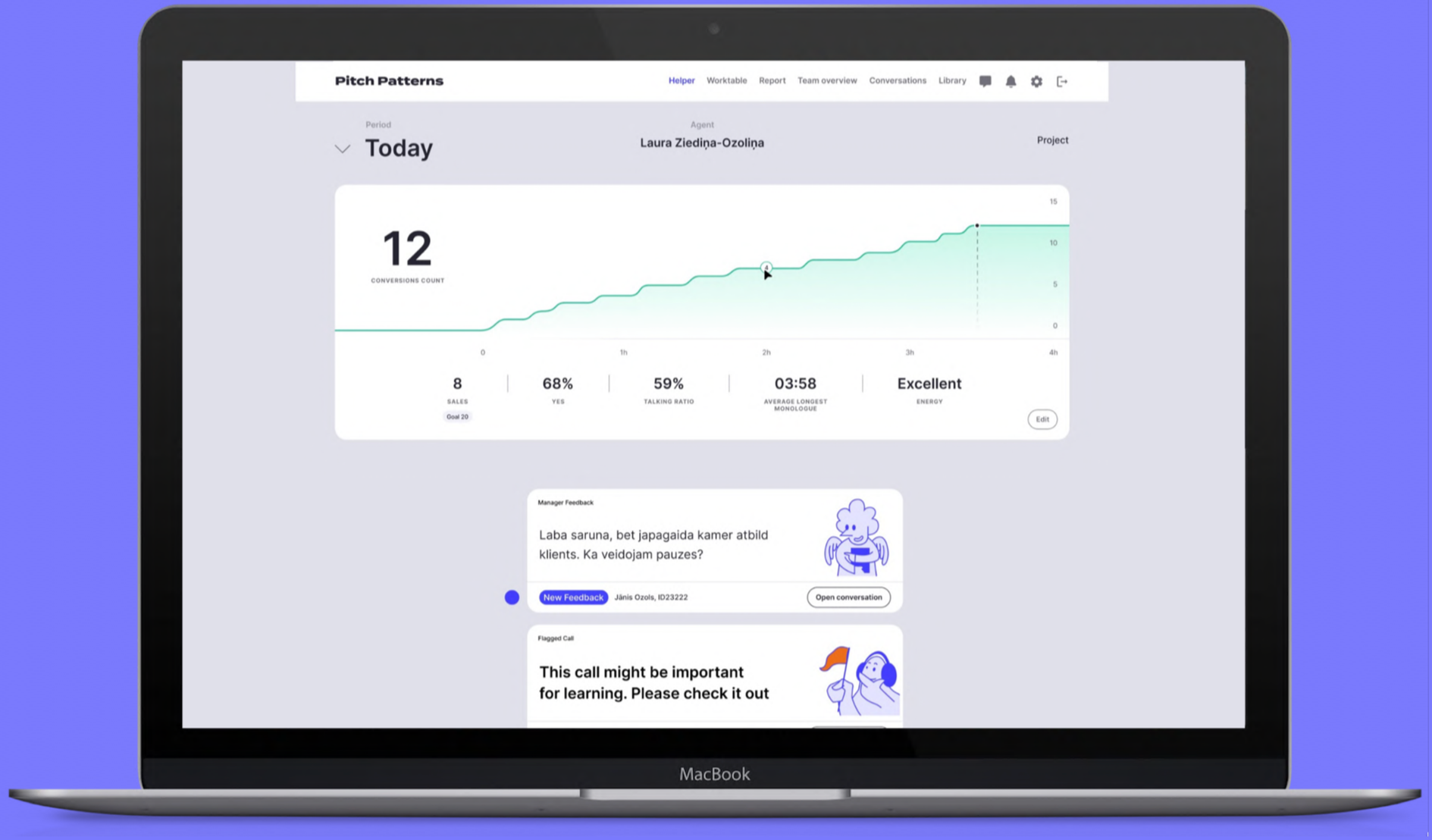
Markers

See issues automatically marked. Save time by knowing where to focus attention first.

Meta analysis

See which emotional moments happened at what exact time moments.

Flag problematic calls



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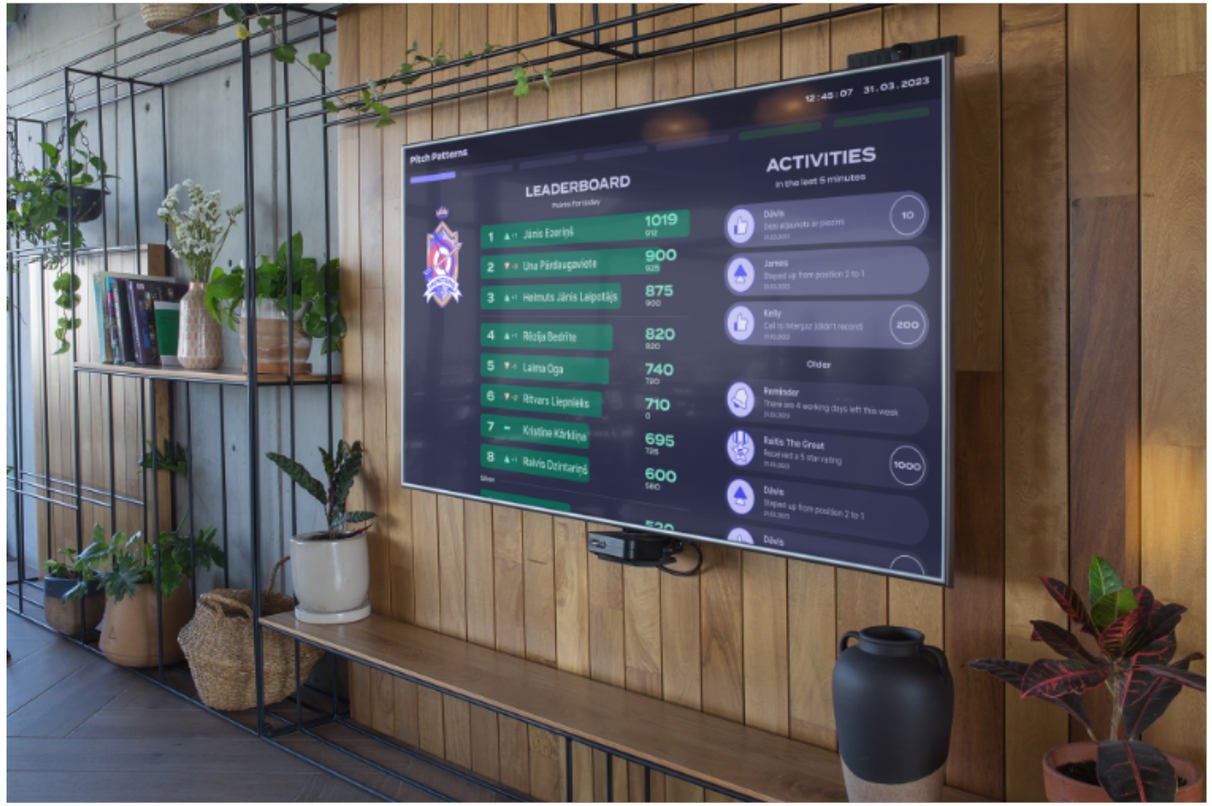
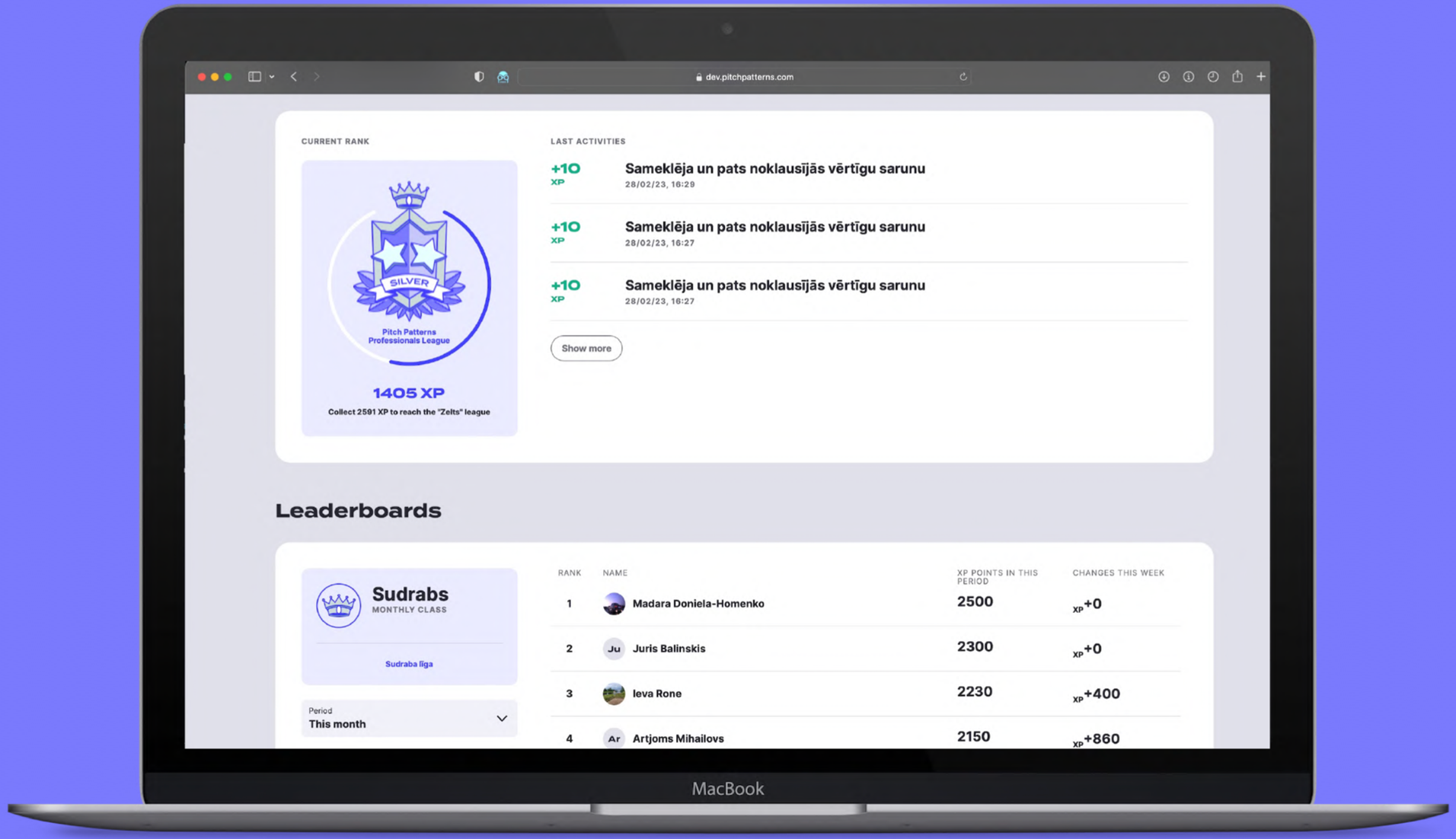


Leaderboards system for motivation



Our clients

Balcia
insurance

inbank

BPO
SERVICES

AVER
real estate agency

VERDIKTS
PARTNERIS PARĀDU ATGŪŠANĀ

LATVIA STATE
RADIO AND TELEVISION CENTER

Privātais
Mežs

24 HR
LOCKSMITH

ARCO REAL ESTATE

PRINTFUL

TELE2

tet

RĪGAS ŪDENS

Our own models and datasets

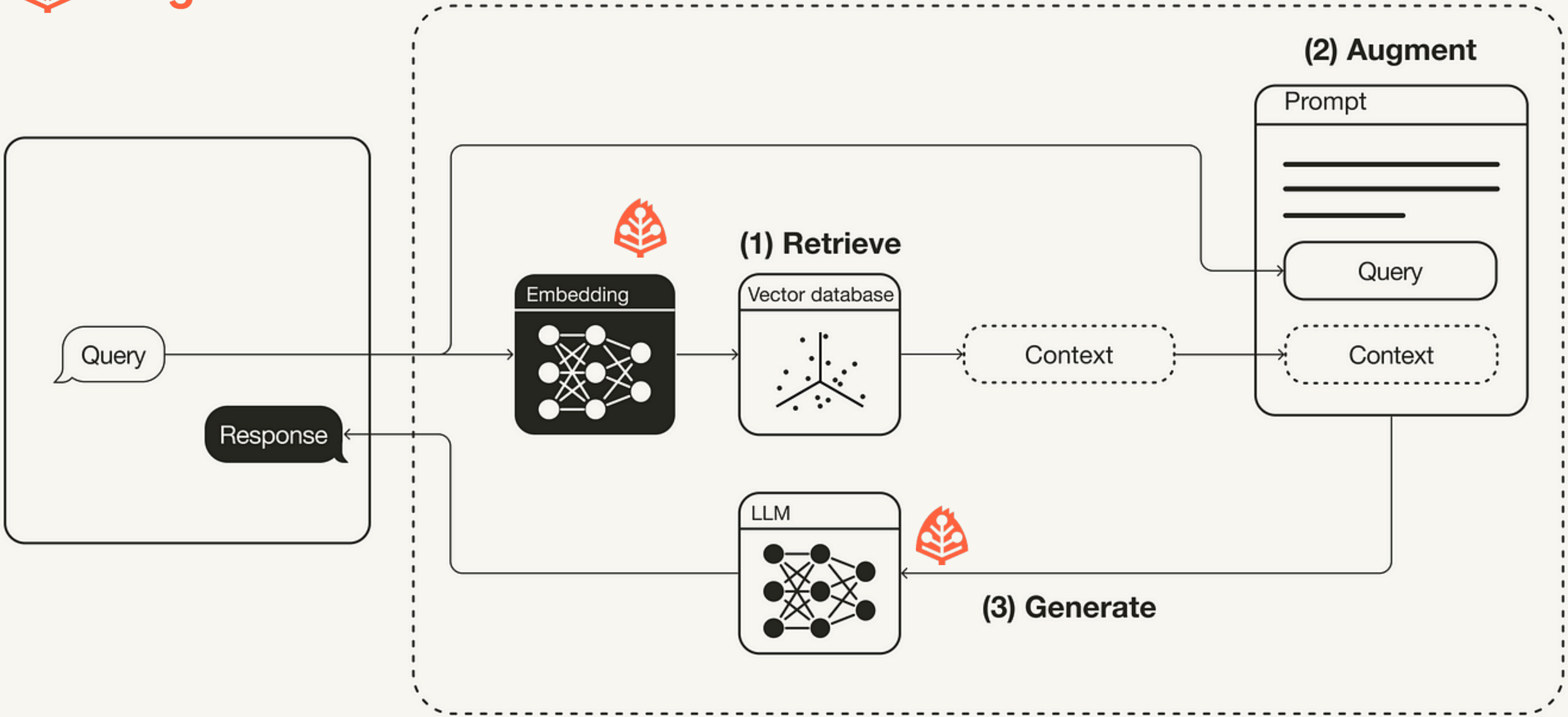
Best STT for Latvian
In the market, working now
on Estonian & Lithuanian

asya.ai PESQ: 2.595
krisp.ai PESQ: 2.266

asya.ai WER: 20%, CER: 10%
Tilde WER: 44%, CER: 25%

Eldigen

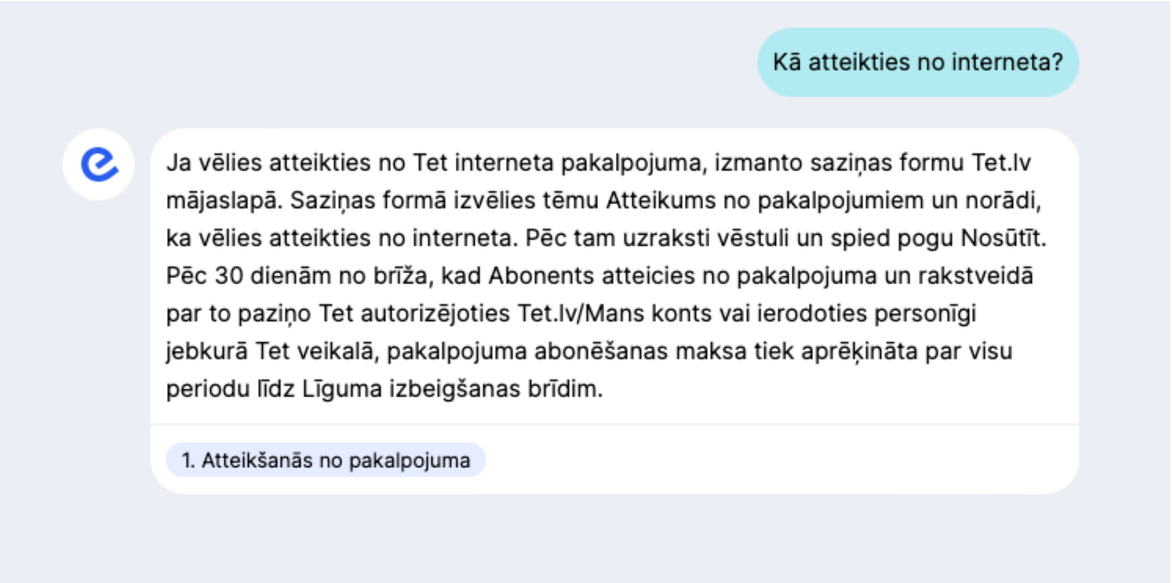
Eldigen


(2) Augment
Prompt
Query
Context
(1) Retrieve
Embedding
Vector database
Context
Query
Response
LLM
(3) Generate

Project #6 – Document search, validation and preparation.

What technology achieves:

- Document search using meaning and not only keywords
- Automatic validation of documents using company criteria and rules
- Automatic drafts of emails and documents with specific clients' data
- Smart assistants based on Natural Language



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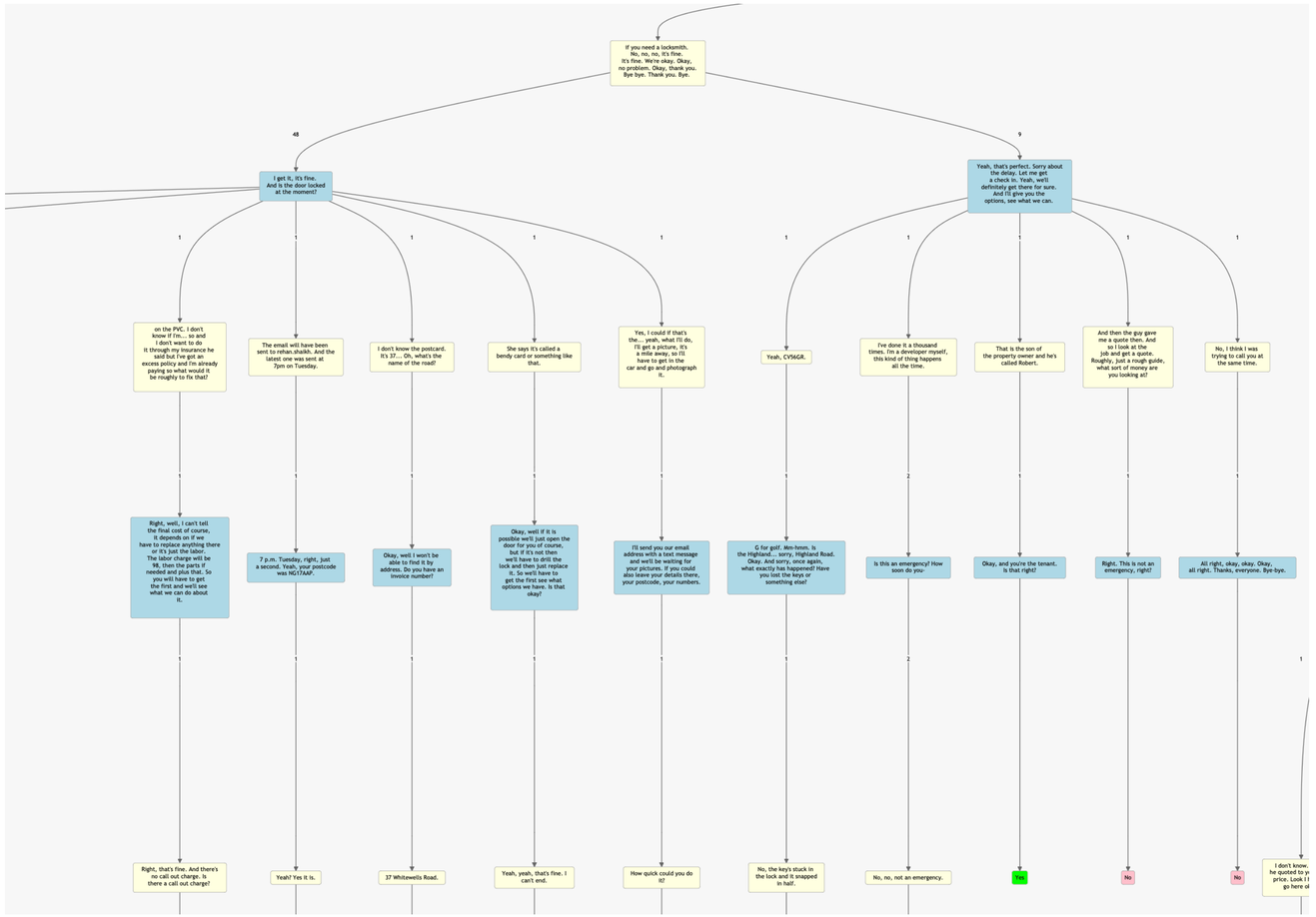


Finished projects

Forbes

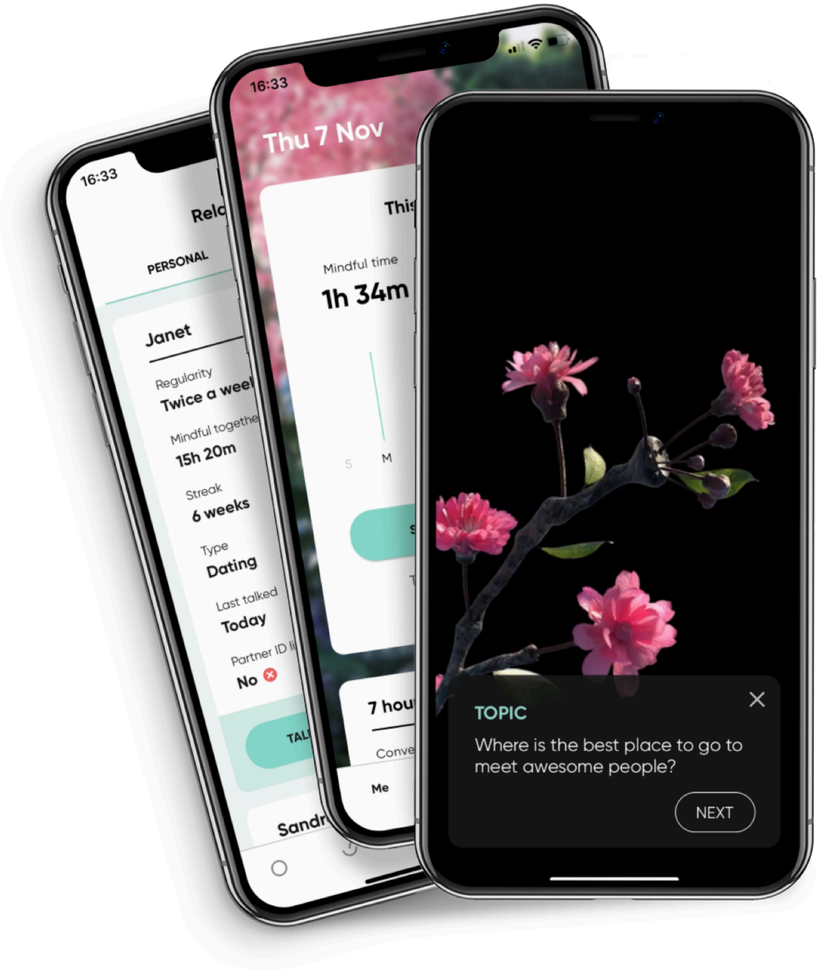
“The disruption potential for Asya app could be immense. In many countries, psychological services are either difficult to find, cost prohibitive or both.”

Project #7 – “Closer to you” – couple’s therapy app

Over 60k users, featured as Apple “App of the day” in many countries. Paid subscription business model. AI models for best conversation topics and emotion tracing.

Our product ~ 1500 EUR/MRR

https://apps.apple.com/us/app/closer-to-you-couple-game/id1326344785



Finished projects

Project #8 – “Our.Love” – couple’s app

Repackaging and improving “Closer to you” app for American market.

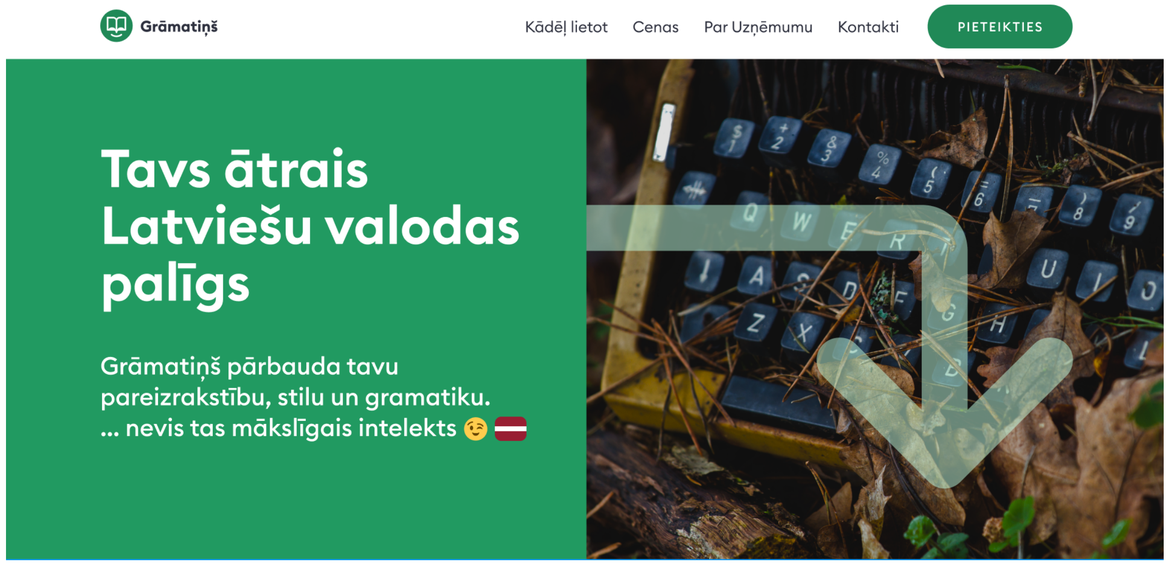
Partner: https://www.our.love (shared IP)

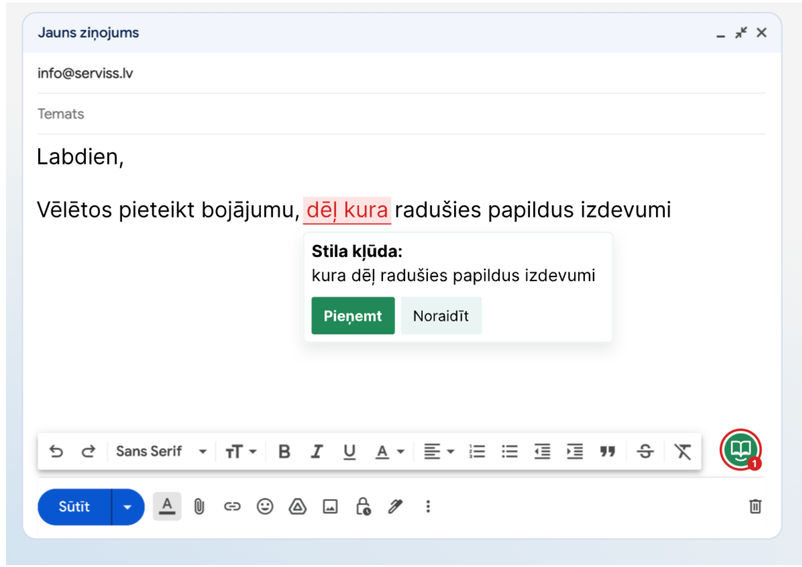
In-progress projects

Project #9 – “Grāmatiņš", Grammarly for Baltic languages

Over 60k users, featured as Apple “App of the day” in many countries. Paid subscription business model. Market potential 5-8m EUR. Then focusing on other smaller languages in eastern Europe and Africa.

Our product
http://gramatins.lv/





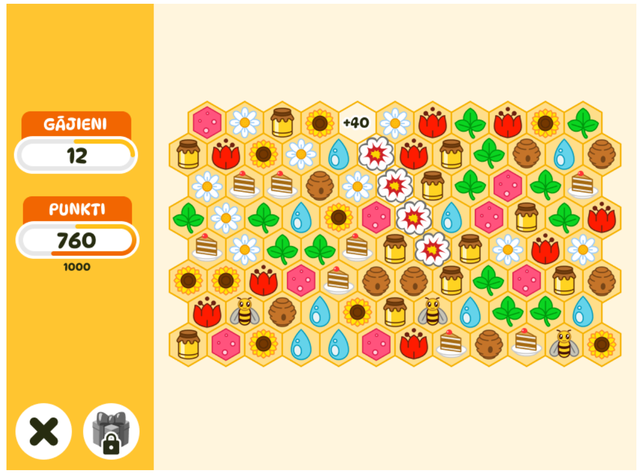
In-progress projects

Project #10 – “Algo", Math app for 5–12-year-olds

Story-based, engaging math app for kids, models to predict personalized tasks to help advance mathematical knowledge. Currently testing in Latvia, global market potential 100m USD+ (largest competitor http://adaptedmind.com)

Our product

http://www.algo.lv



Main product

Project #11 – pitchpatterns.com automated call analysis for sales teams

Most advanced of our projects with most potential for spinoff for VC backed round at this stage. Sales team of 5 people dedicated to this product.

Our product ~ 3000 EUR/MRR (growing)
http://pitchpatterns.com