



MANA

INNOVATION CONSULTANTS

Accelerating the world through innovation.



WHY US

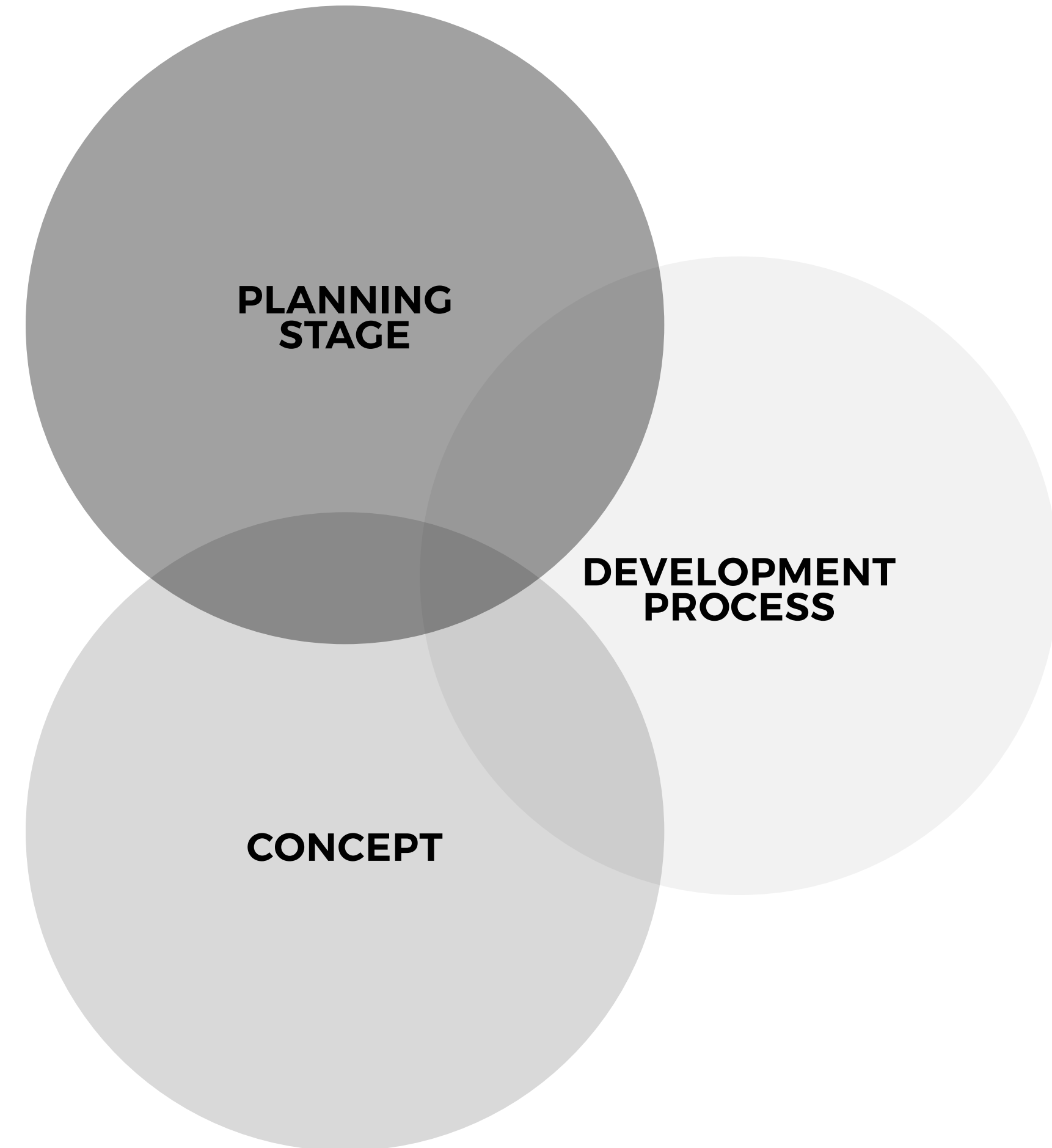


95% OF STARTUPS FAIL!
WE BELIEVE THAT IT CAN BE 50%.
AND WE WILL MAKE THIS CHANGE.

THAT'S WHY ALL OUR PRODUCTS ARE **CAREFULLY PLANNED.**

Team of **business and financial analysts** extracts a business vision and puts it on paper so every team member has the same understanding of a product as a CEO.

Business analytics also breaks a whole idea to simple parts and forms it into a **set of technical specifications.**





INTELLIGENTLY DESIGNED

On the first stages - we develop a **technical architecture and user experience of a product.**
It ensures optimal communication of internal parts.

As a result - **we achieve flawless user journey.**

PROFESSIONALLY DONE



Programmed by the team with over 5 years of experience. **In total 150+ in-house professionals.**

Half of the team working in JS frameworks.
Main tech stack is: React.js, Node.js, Angular
and React Native.

Our team is structured to **constantly share expertise** between dozens of projects.

BUILT WITH LATEST TECHNOLOGIES



We got into React Native since it was launched by Facebook.

We've been building blockchain-based products for more than 3 years now. Way before Bitcoin boom.

Our first **Big Data** solution has been deployed around 2.5 years ago.

Main focus for today is **Deep learning** solutions and other **Artificial Intelligence** applications.



SECURE

We provide:

Encryption expertize.
Blockchain solutions.

Going beyond NDA we are ready to provide a **whole team** working in a building with limited access.



MANA
EXPERTISE:
**AI, BIG DATA &
BLOCKCHAIN**

AI & Big Data

YOUR BUSINESS GENERATES TERABYTES OF DATA RIGHT NOW. DATA ABOUT CLIENT, PRODUCTS, TRANSACTIONS AND THOUSANDS OF OTHER PARAMETERS.

BIG DATA SOLUTIONS MAKE THAT HIGH VOLUME OF INFORMATION MEANINGFUL FOR YOU AND YOUR BUSINESS.

AI LEARNS ON THIS DATA, MAKES DECISIONS AND ACTS UPON IT.

AI / BIG DATA BENEFITS FOR BUSINESS

1

GENERATE SMARTER BUSINESS DECISIONS

Data exploration that discover actionable information and brings valuable intelligence to your business. Allows AI to learn and make datadriven decisions.

2

REDUCED OPERATIONAL COSTS

The most time- and cost-e!ective way to explore and act upon high volumes of data.

AI / BIG DATA BENEFITS FOR BUSINESS

3

BOOSTED PRODUCTIVITY

Quick and efficient data analysis and decision making of AI increases productivity on all levels of business operations.

4

ENHANCED AGILITY

Aligning business strategy and efforts with a rapidly changing market in a faster and more efficient way.

5

ACHIEVE NEXT-5 LEVEL RISK MANAGEMENT

Prevention of loss and optimization of business processes based on factual data brings your business to a leading edge.

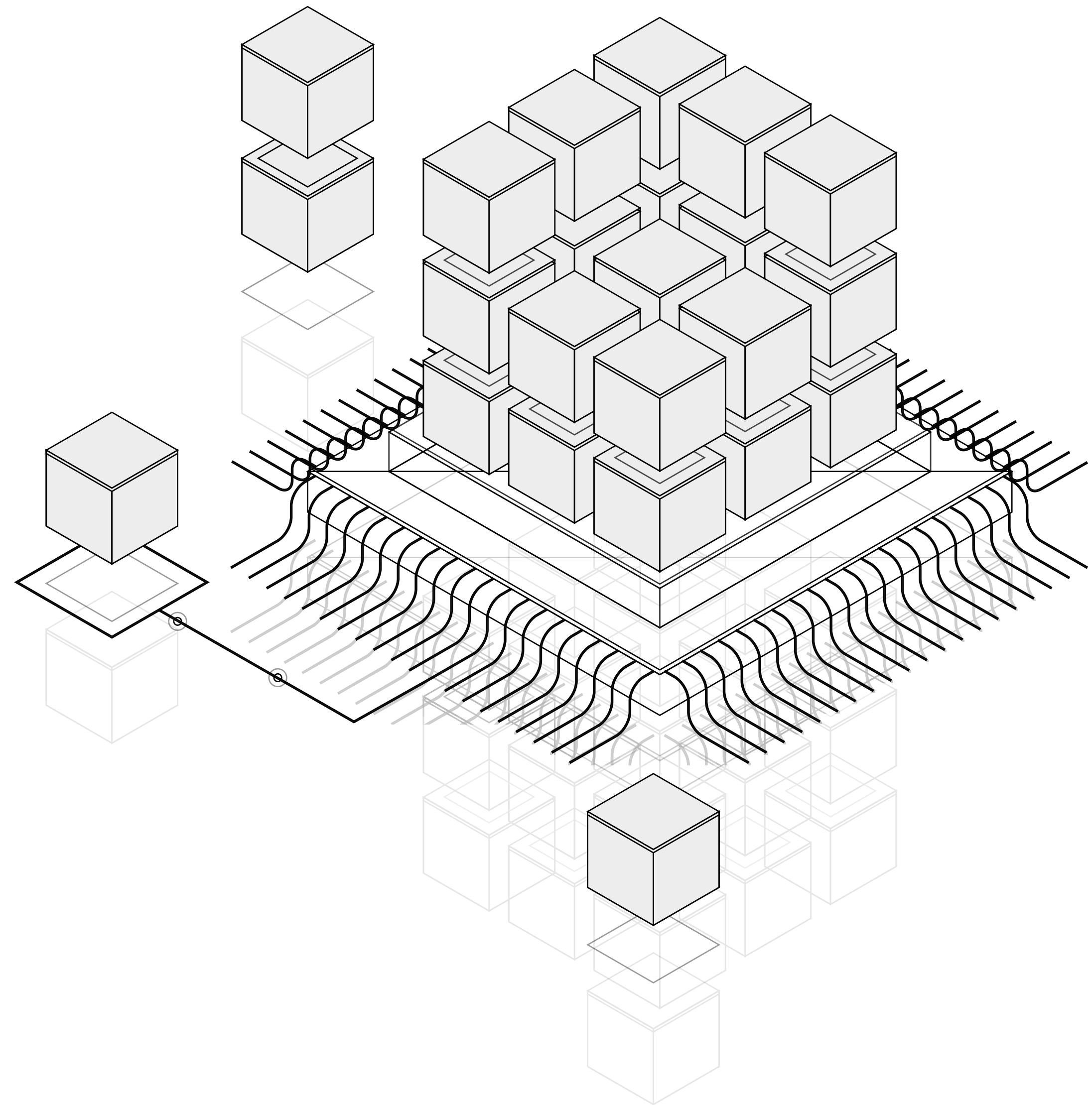
APPLICATIONS

Big Data

Exploration, extraction and analysis of high volumes of data brings business valuable insights how to enhance process automation.

Natural Language & Dialogue Systems

Analyses human language and helps machines understand and interpret it. Systems capable of verbal interaction with humans and possessing both input and output channels.



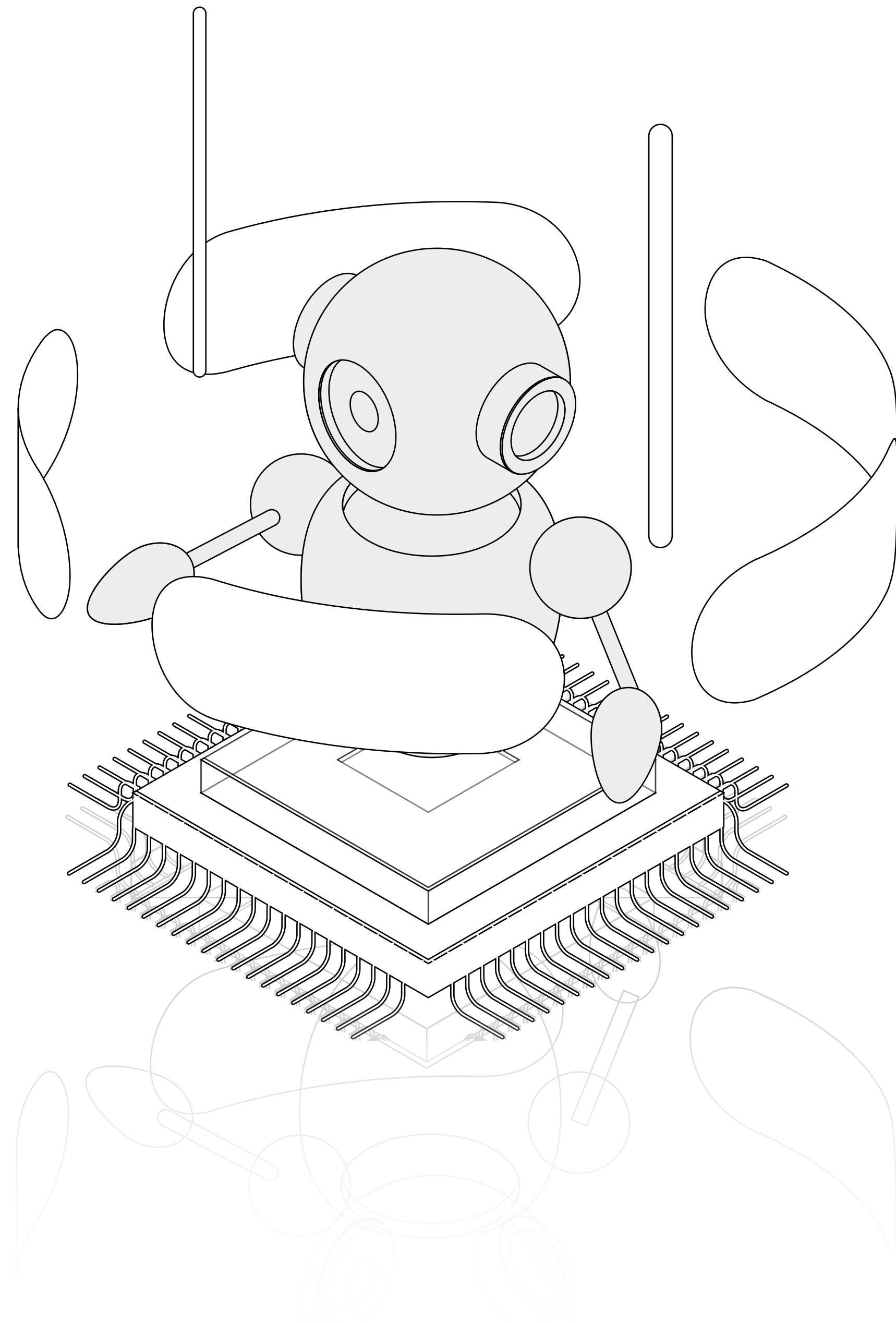
APPLICATIONS

Machine Learning and Deep Learning

Self-sustainable systems that learn from data, identify patterns, and improve with experience and requiring minimal human intervention. Algorithms as advanced as cerebral neural network structures.

Computer Vision

Enables computers to identify and process images in the same way the human eye. Recognize objects and object interactions.



APPROACH

1

SCOPING

Analysis of your business to see which Big Data Solution and AI model is the best fit to address your current challenges, add value, and improve performance.

2

DATA PREPARATION

Finding sources of information that can help to make data-driven decisions. Structuring data for future analysis. Extracting, exploring, visualizing and transforming data for use with or without AI algorithms.

3

DATA EXPLORATION

Finding insights in unstructured data and advancing analytics. Visualizing a complex system of different data types.

APPROACH

4

MODELING & ARCHITECTURE

Building an overarching system to extract vital business data. Creating a custom AI model specifically for the engineering and business needs of your enterprise. The system is trained to conduct an operational analysis, identifying patterns and correlations in order to create meaningful predictive models.

5

DEPLOYMENT & INTEGRATION

Seamless integration of the solution into your existing business systems and processes in a non-disruptive way.

TOOLS FOR BIG DATA

| | | | | |
|---|--|---|---|---|
|  |  |  |  |  |
| KAFKA | SPARK | CASSANDRA | AWS LAMBDA | SCALA |
| LANGUAGES | SCALA, JAVA, PYTHON. | | | |
| HADOOP STACK | APACHE SPARK, YARN, HDFS, MAPREDUCE, NIFI, FLUME, OOZIE, SQOOP, PIG, HBASE, HIVE, AVRO, PARQUET. | | | |
| DATABASES | CASSANDRA, MONGO, POSTGRES, ELASTICSEARCH, REDIS. | | | |
| MESSAGING | KAFKA, RABBITMQ, MQTT. | | | |
| AWS SERVICES | EC2, S3, EMR, REDSHIFT, KYNESIS, DYNAMODB, LAMBDA, SNS, QUICKSIGHT, ELASTICSEARCH, ELASTICACHE. | | | |
| FOR AUDIO | TACOTRON / TACOTRON2. | | | |

TOOLS FOR BIG DATA



PYTHON



SPARK



PYTORCH



TENSORFLOW



JUPYTER NOTEBOOK

| | |
|--|---|
| LANGUAGES | PYTHON as a very mainstream, but JAVA, C, MATLAB / OCTAVE, R, LISPLISP are also can be used. |
| LIBRARIES AND SOLUTIONS | NUMPY, SCIPY, SCIKIT-LEARN, PANDAS, JUPYTER NOTEBOOK. |
| FOR NEURAL NETWORKS AND DEEP LEARNING | PYTORCH, TENSORFLOW, KERAS, CUDA. |
| FOR NLP | SPACY, STANFORDNLP, NLTK, LANGUAGE TOOL, SYNTAXNET and others in many NLP tasks (NOP/NER/NLU/CHATBOTS/CLASSIFICATION/SCORING) |
| FOR COMPUTER VISION AND IMAGE PROCESSING | YOLO, GANS, RESNET, ALEXNET, VGGNET and others models of this decade. |
| FOR AUDIO | TACOTRON / TACOTRON2. |

MYNTELLIGENCE

Business goal of a project:

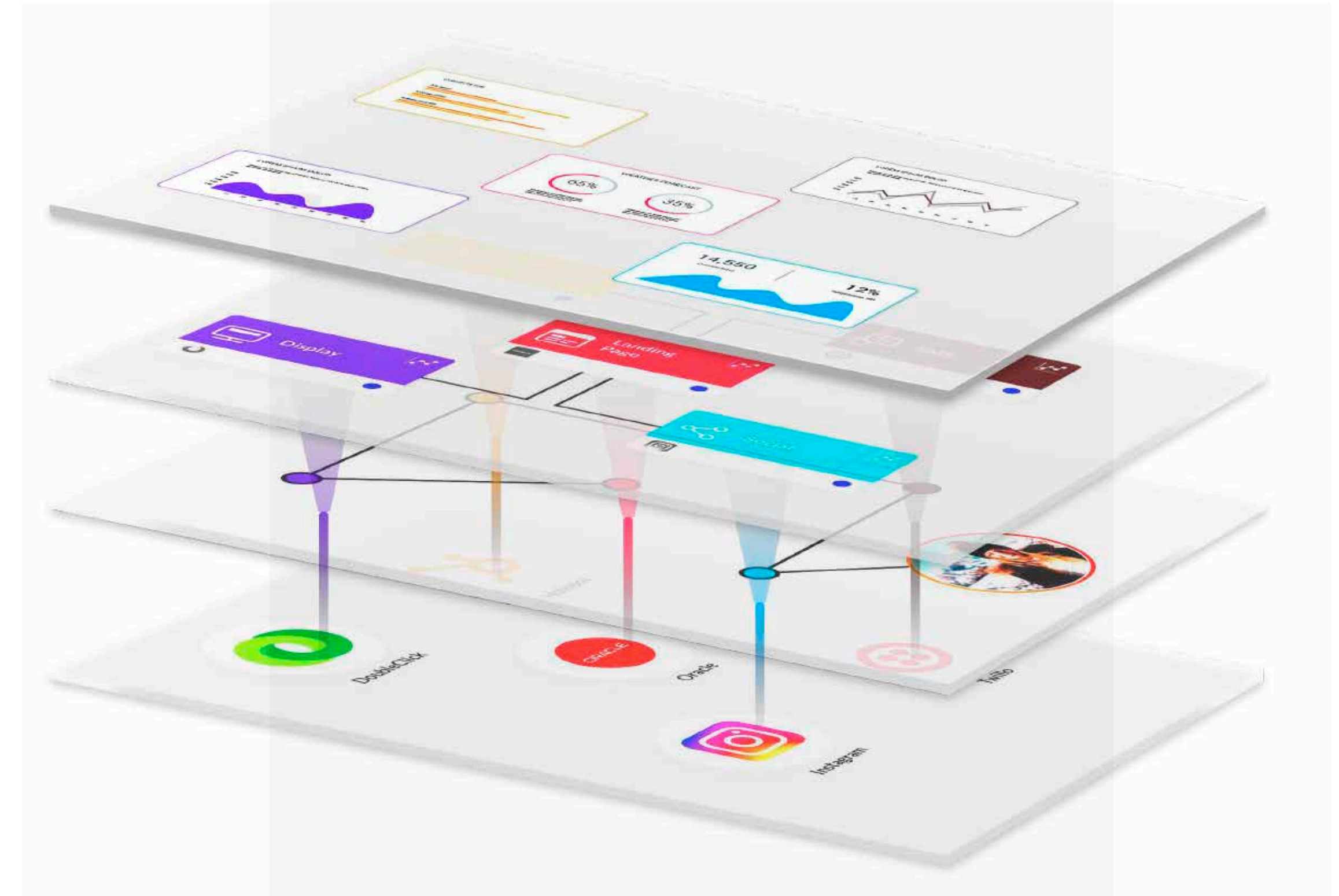
Build a powerful tool that allows to identify user and gather behavioral information. Based on analysis of this information - optimize marketing and advertising strategies to maximize cost-efficiency.

Clients

BPN Paribas, Credit Agricole, MasterCard.

Volume

1.6 Billion data points per month.



MYNTELLIGENCE

Solution



Cookie-less fingerprint technology to recognize a particular user. (Gender, age, income level, region, and thousands of other parameters).



Tracking system to gather information about user behavior all around the internet.



BigData based application to analyze and optimize gathered information.



Recommendation model that automatically acts based on insights from BigData analysis.



Business integration that allows to match real-life client profile to it's online profile. Seamless addition to already existing CRM systems.

DEEP LEARNING FOR SOLAR POWER

Business goal of a project:

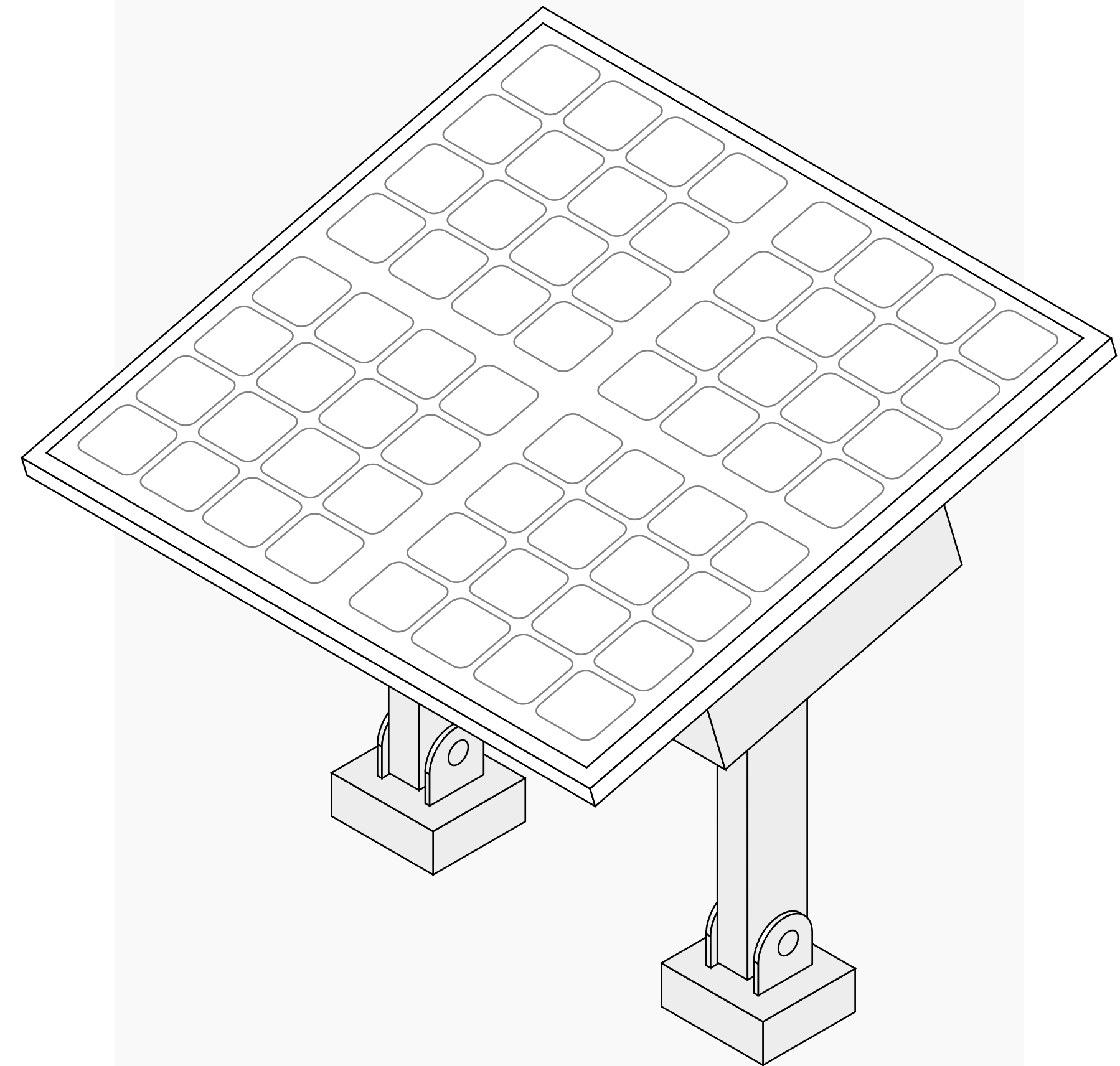
- as accurately as possible predict amount of electricity generated by solar power. This prediction important to a solar power plant to accurately report amount of electricity that will be sold to a grid provider. As far real life production will be from estimate - as much power plant will have to buy from 3rd party resources or will not be able to sell a surplus.

Clients

BPN Paribas, Credit Agricole, MasterCard.

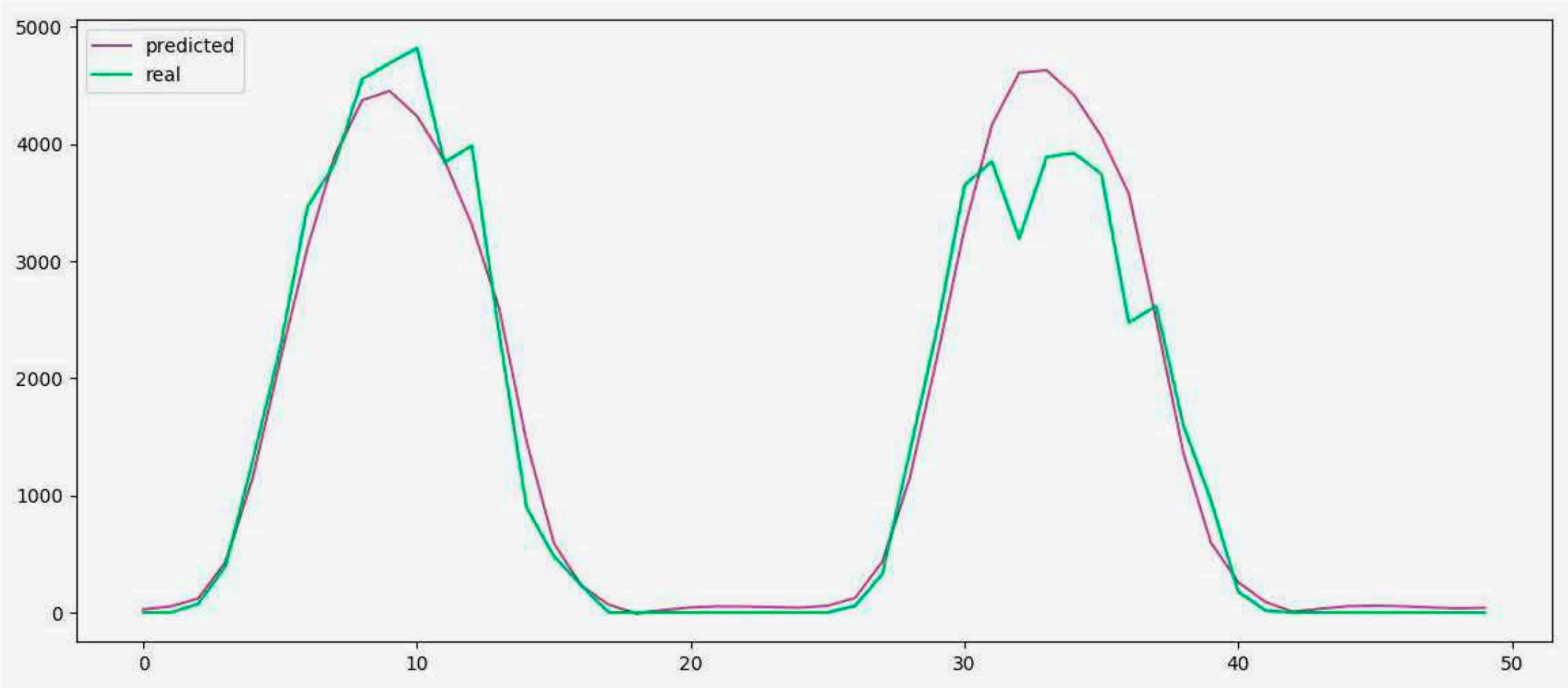
Accuracy:

7% more accurate than existing similar solutions.



DEEP LEARNING FOR SOLAR POWER

7% MORE
ACCURATE
THAN EXISTING
SIMILAR
SOLUTIONS.

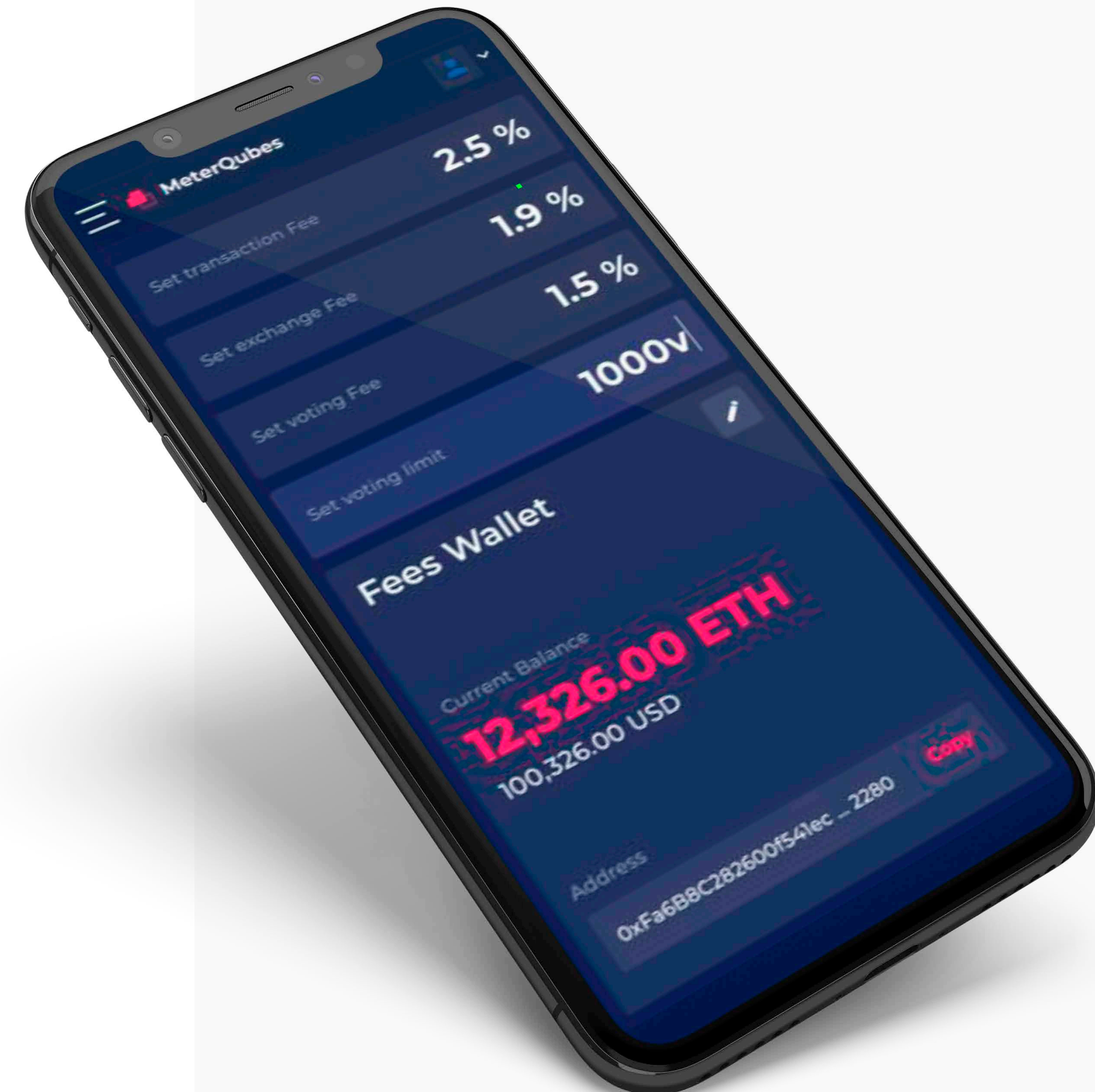


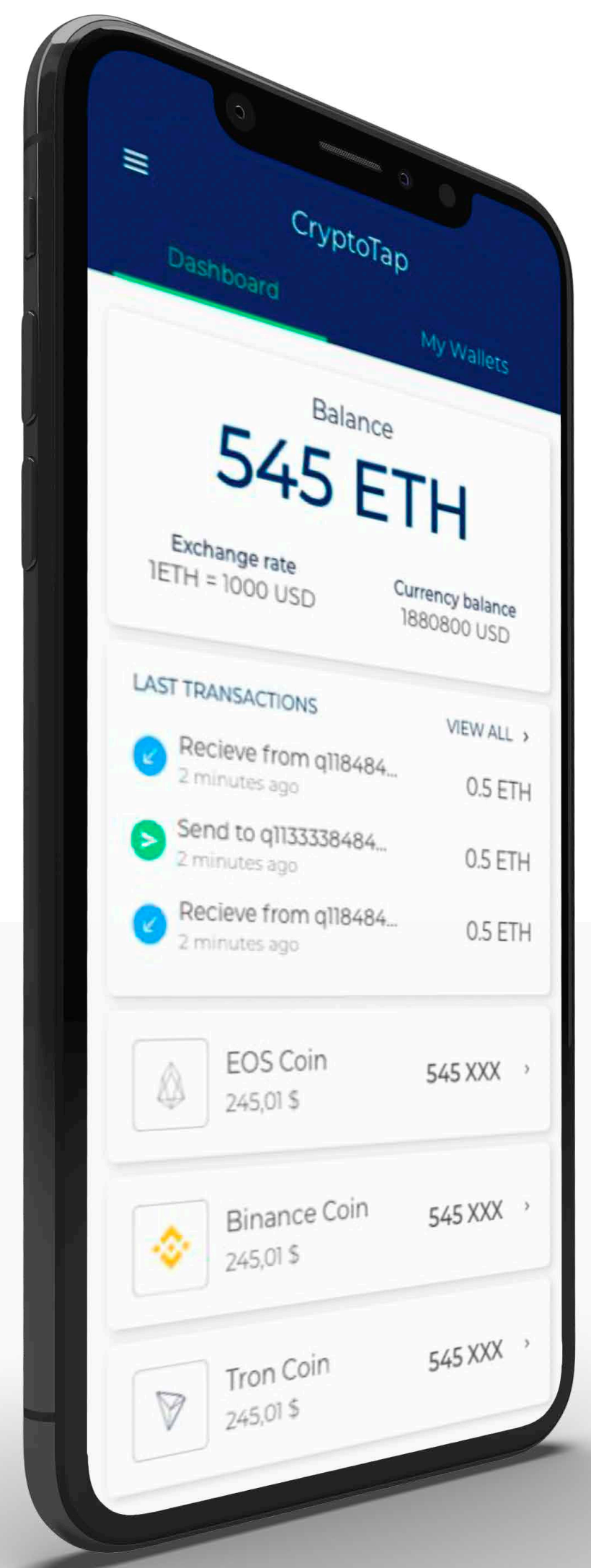
Two solar days - predicted power output and fact value

Blockchain Cases

MeterQubes

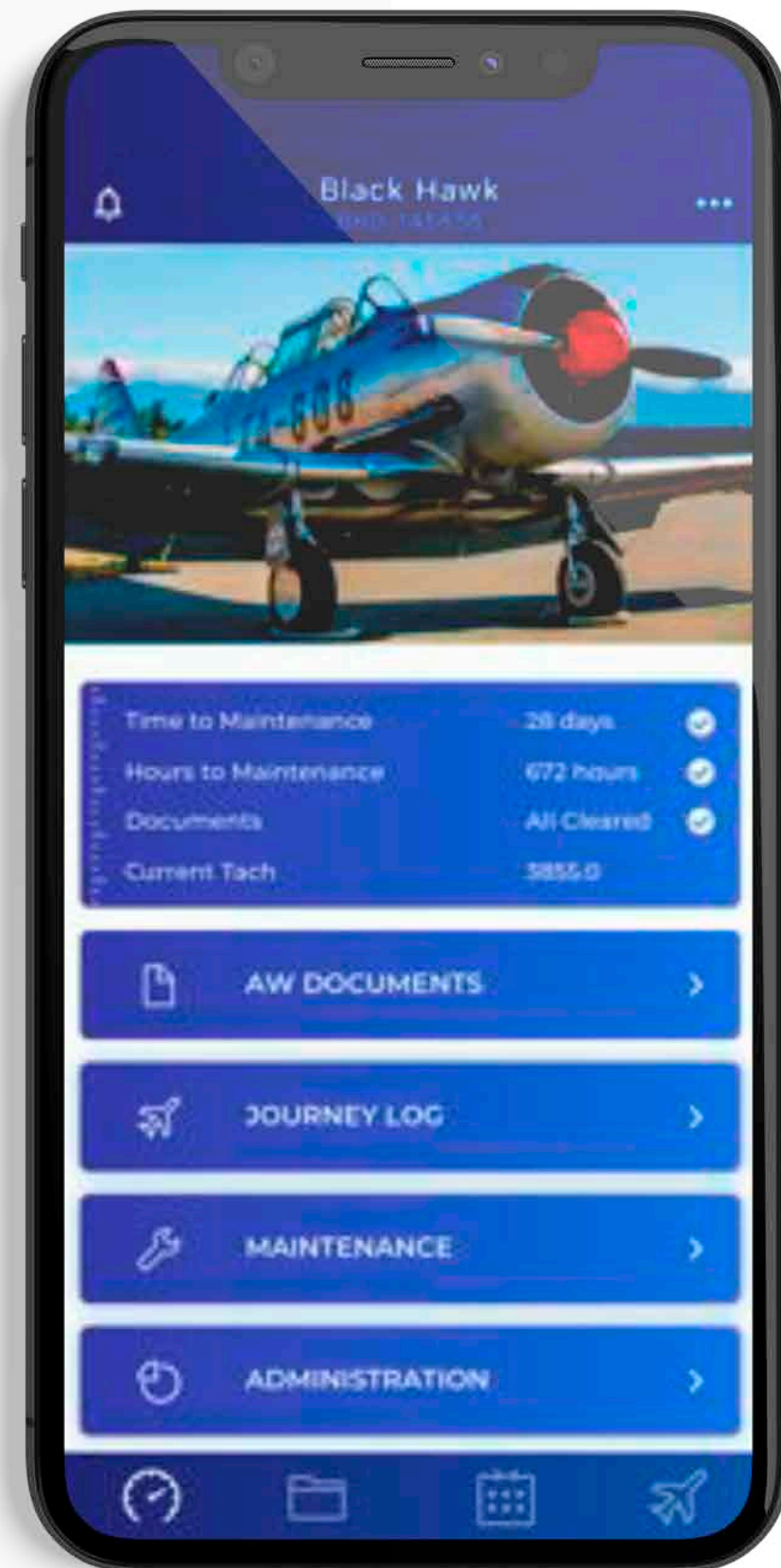
A Cognitive Decentralized trading platform that will be assisting traders in a live environment using machine learning algorithms and live market trends.





CryptoTap

Convenient and user-centered mobile app for cryptocurrency payments and investments. CryptoTap supports ERC-20 transactions.



Airlog Monitor

Airlog is the unique system, that connects aircraft owners, maintenance organisations, crew members, insurance companies, and other authorities in one place.

Instead of maintaining lots of paperwork Airlog gives its users the benefit of having all valuable aircraft data stored securely in blockchain-based system.

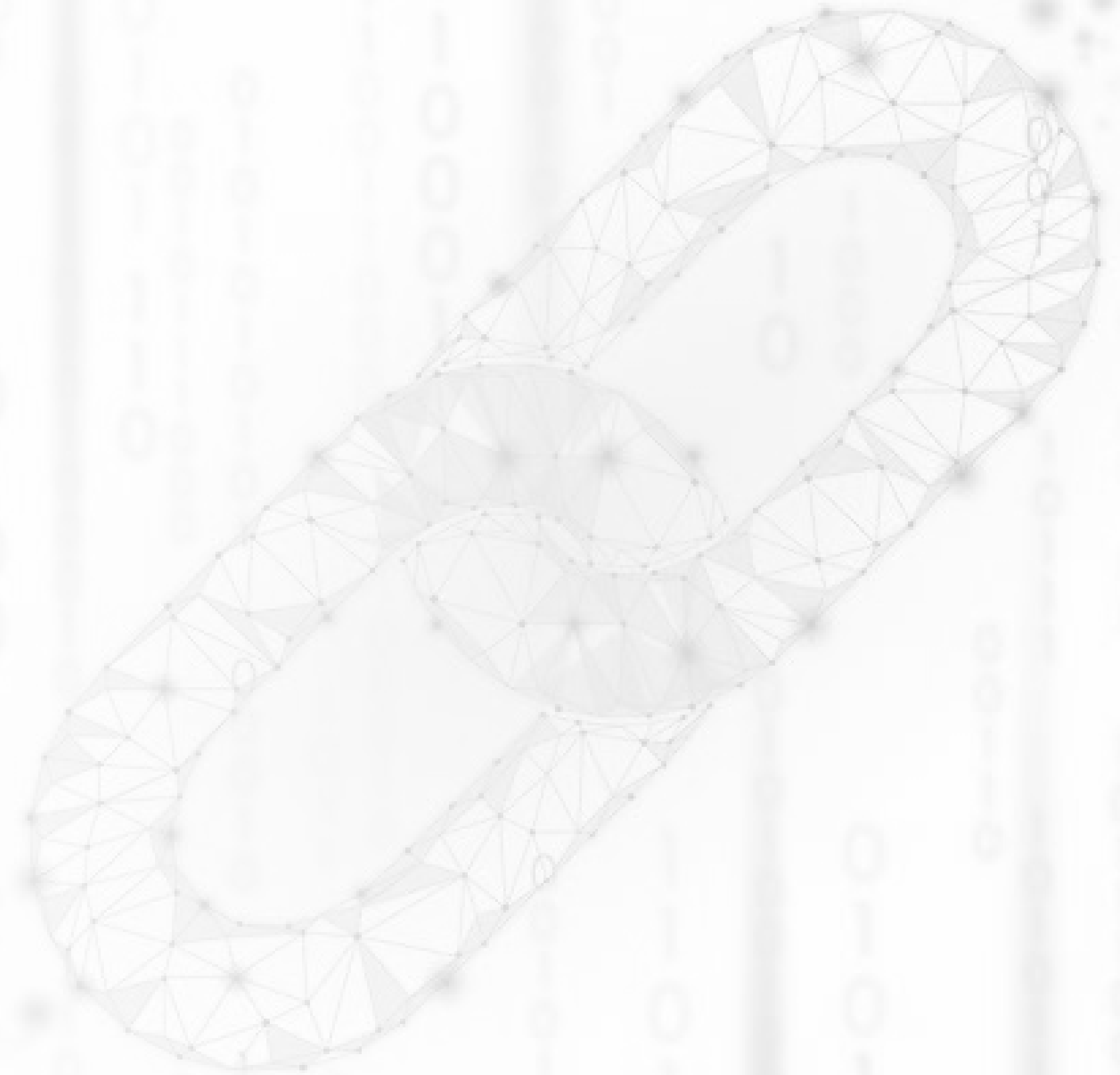
BLOCKCHAIN EXPERTISE

TECH STACK:

Hyperledger Fabric, Quorum,
Corda, Qorum, Tron, EOS.

FOR NEW BLOCKCHAIN PROJECTS:

We provide forking develop own configuration
for custom consensus needs.



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