



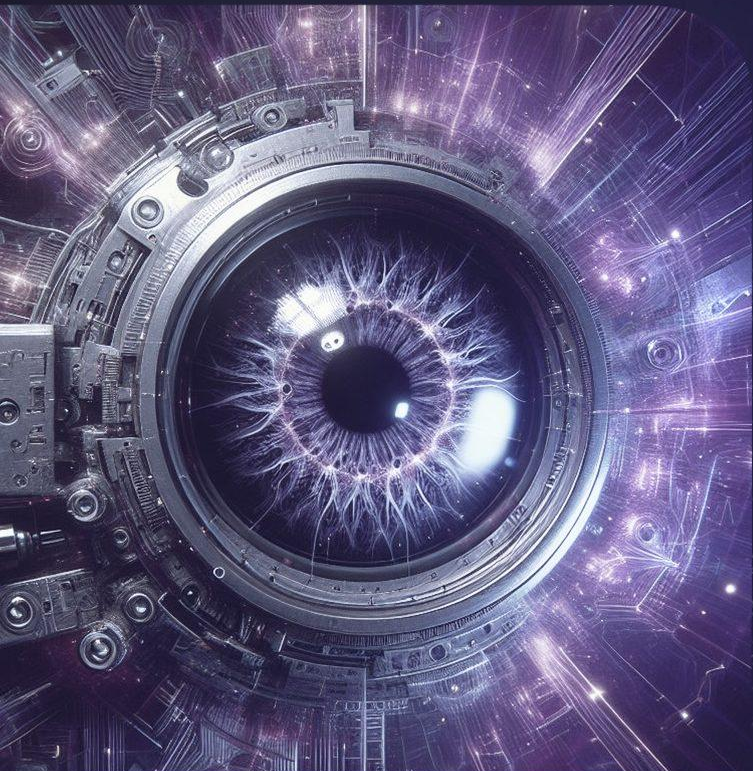
# Let's implement AI/ML in your business!

AI Consulting and Innovative Research Laboratory





# Generative AI



- GPT Integration
- Model Training
- Fine-tuning
- Text Generation
- Image Generation
- Video Generation
- Data Augmentation



GPT

LLama

Mistral

Transformers

QLoRA

TRL

BitsAndBytes

Accelerate

DALLE

Midjourney





# Virtual Assistant

- Chatbot Development
- Voice Bot (ASR, NLP, TTS)
- Human-like Behavior
- Dialogue Management
- Intent Understanding and Entity Recognition
- Multilingual Integration
- Mixed Languages Recognition



RASA

PyTorch

SpaCy

LLMs

NLTK

Vosk

Kaldi

Google Speech

AWS





# NLP



- Paraphrasing and Summarization
- Text2Text Processing
- Semantic Analysis
- Text Embeddings
- Text Recognition (OCR)
- Entity Extraction and Recognition
- Dialogue Generation



NLTK

SpaCy

LLama

Mistral

GPT

T5

BERT

BitsAndBytes

Accelerate



# Speech Processing

- Voice Activity Detection
- Voice Preprocessing
- Speech-to-text Conversion (STT, ASR)
- Automated Voice Acting
- Speaker Identification
- Text-to-speech Conversion (TTS)
- Speech Enhancement



Kaldi

Vosk

Speech Brain

Google Speech

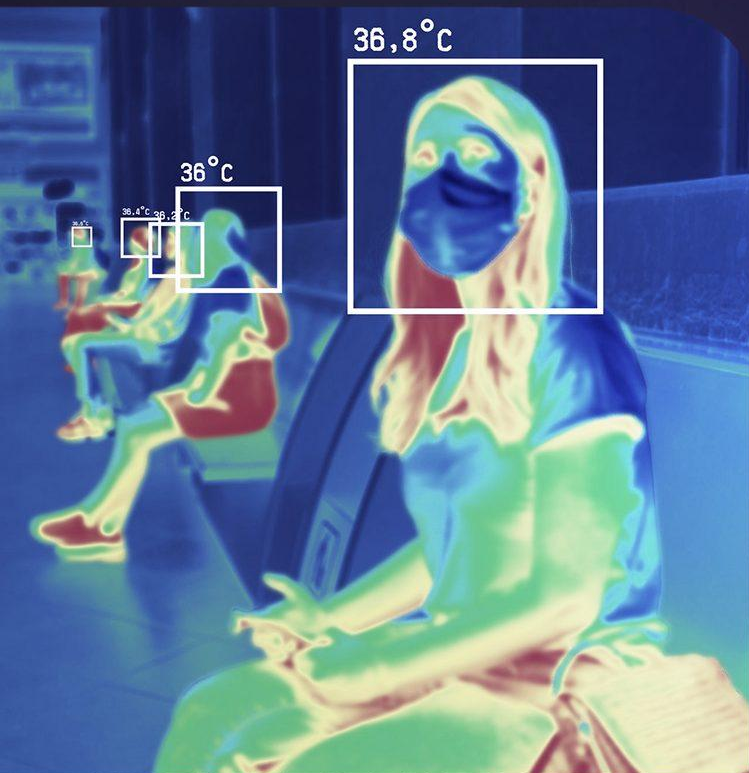
AWS







# Computer Vision



- Image Classification and Segmentation
- Object Detection and Tracking
- Face Detection and Recognition
- Gesture Recognition
- Pose Estimation
- Image Enhancement and Similarity Search
- Text Extraction (OCR)



OpenCV

PyTorch

Tensorflow



# Robotic Applications

- Eye Controlled Interface
- Collision Detection and Avoidance
- Global Path Planning
- Autopilot for Unmanned Vehicles and Drones
- Embedded Systems Programming
- Smart Appliances Programming
- Harvesting Robots Development



C/C++

QT

Python

Java

PyTorch

SciPy

Scikit-learn

Tensorflow

Reinforcement Learning

Transformers





# Predictive Analytics



- Anomaly Detection (MLAD)
- Time Series Analysis
- Exploratory Data Analysis
- Recommendation Systems Development
- Price and Demand Forecasting
- Consumption Projections
- Predictive Medicine



Transformers

PyTorch

OpenCV

Tensorflow

Pandas

QNet

LightGBM

XGBoost



# Data Processing

- Big Data Analysis
- Data Labeling
- Data Clusterization
- Feature Extraction
- Regression Systems Development
- Decision-Making Systems
- Customer's Behavior Analytics



Python

DABL

Pillow

Librosa

Pandas





# Technology Stack



TensorFlow



PyTorch



SimpleITK



OpenCV



RASA



QuBot



Amazon Web Services



Google Cloud



C++



Python



GPT



LLama



# Case Studies

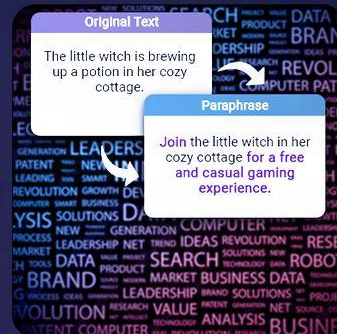
Discover the impact of our solutions through real-world success



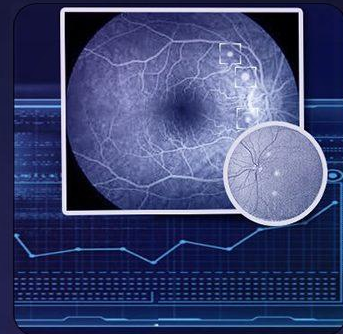
AI-Driven Search  
Bar for E-Commerce



Workout Planner  
QuGym Notepad



Transformative  
Paraphrasing



AI-Aided Analysis of Retinal  
Fluorescent Biomarker

Explore all case studies  
<https://qudata.com/en/ai-ml-case-studies/>



# Contact us



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