

# Object recognition system

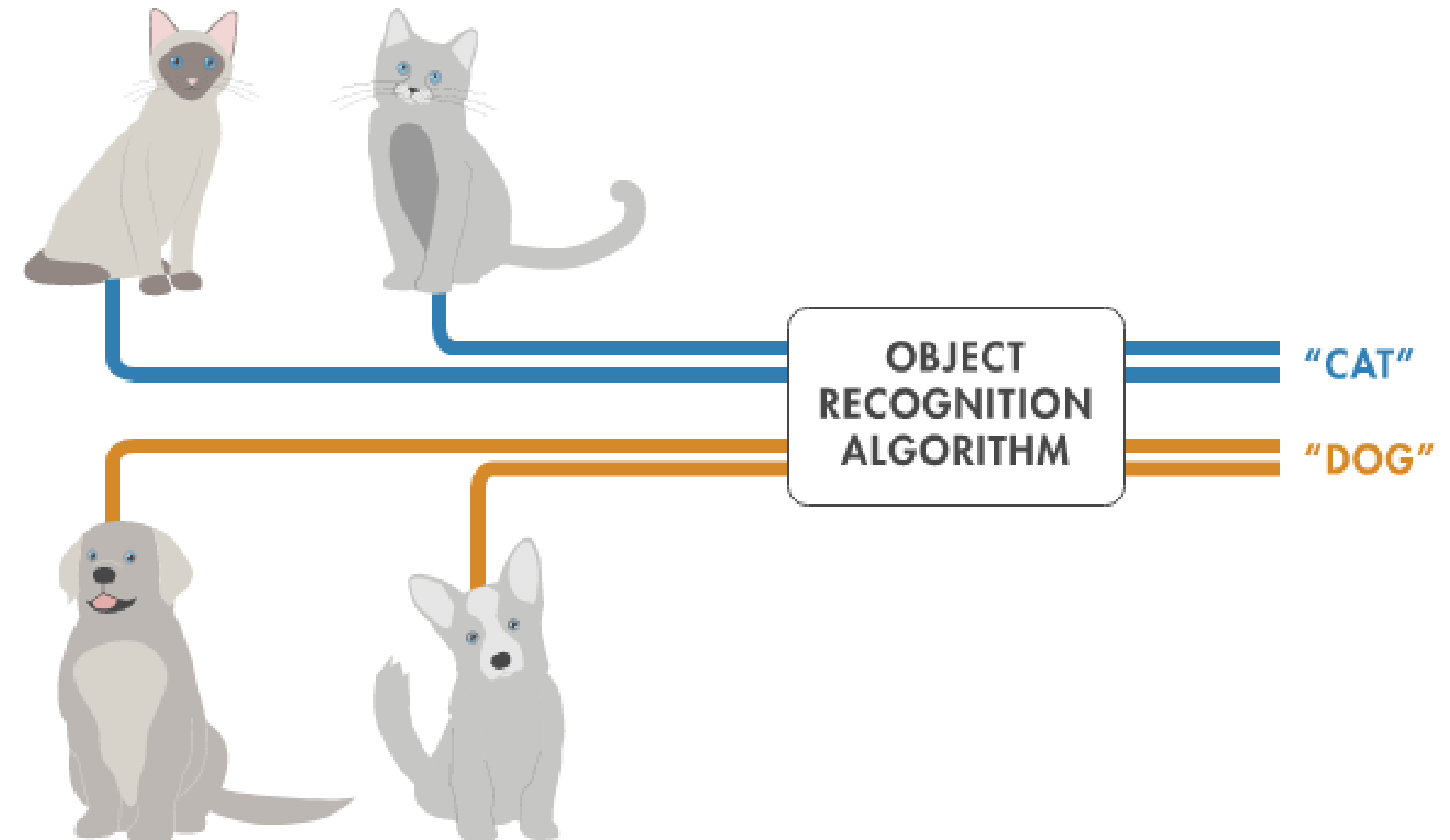
by WildDaraBouz

- **About object recognition**
- **What is Opencv, how and why it works?**
- **You only look once**
- **Our project**
- **Function for images**
- **Function for video**
- **Some output examples**
- **Q&A**



# About object recognition

Object recognition is a computer vision technique for identifying objects in images or videos. Object recognition is a key output of deep learning and machine learning algorithms.



# What is Opencv, how and why it works?

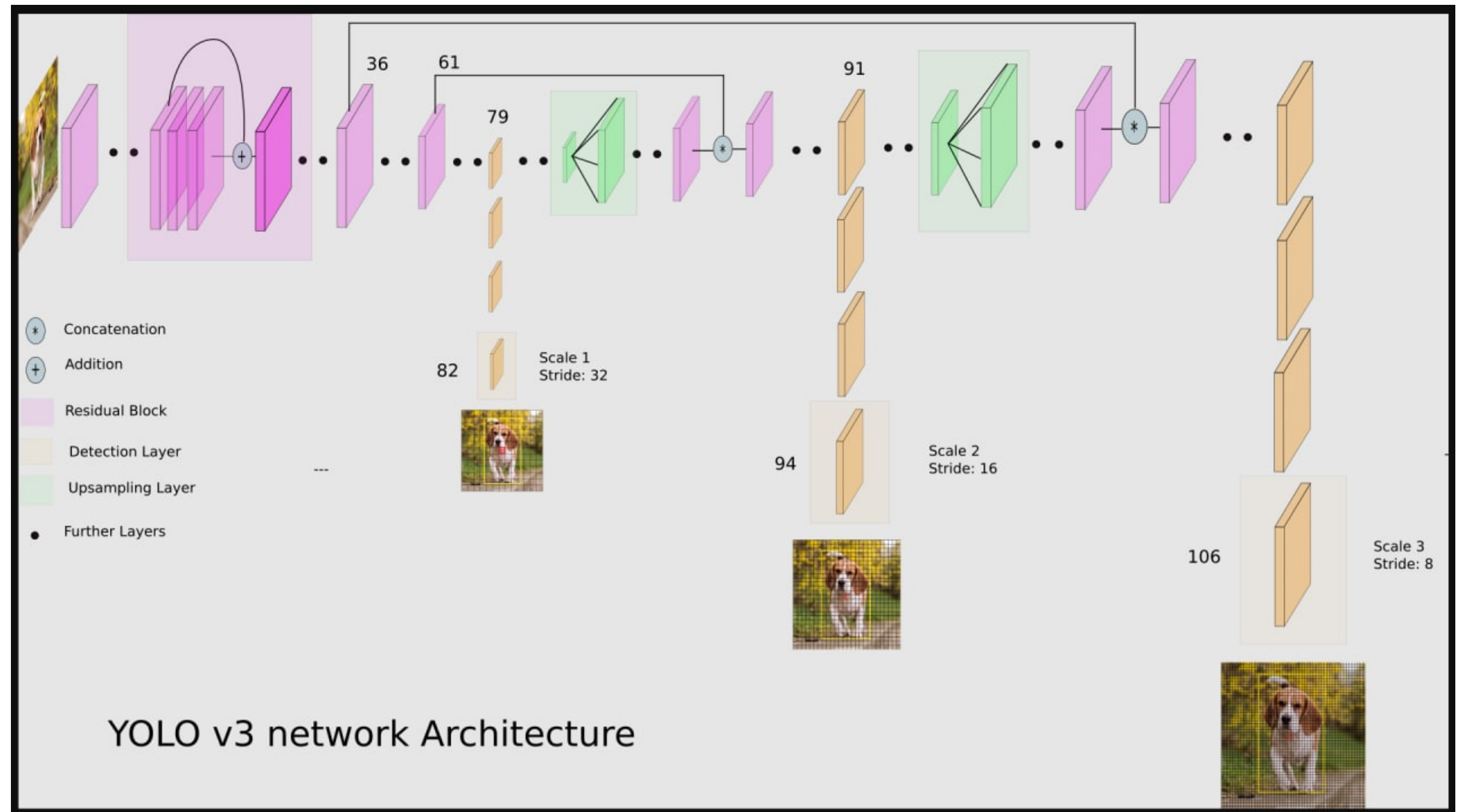


## What is OpenCV used for?

OpenCV (Open Source Computer Vision Library) is an open source computer vision and machine learning software library. OpenCV was built to provide a common infrastructure for computer vision applications and to accelerate the use of machine perception in the commercial products.

# You only look once

YOLO is an algorithm that uses neural networks to provide real-time object detection. This algorithm is popular because of its speed and accuracy. It has been used in various applications to detect traffic signals, people, parking meters, and animals.



## YOLO: Real-Time Object Detection

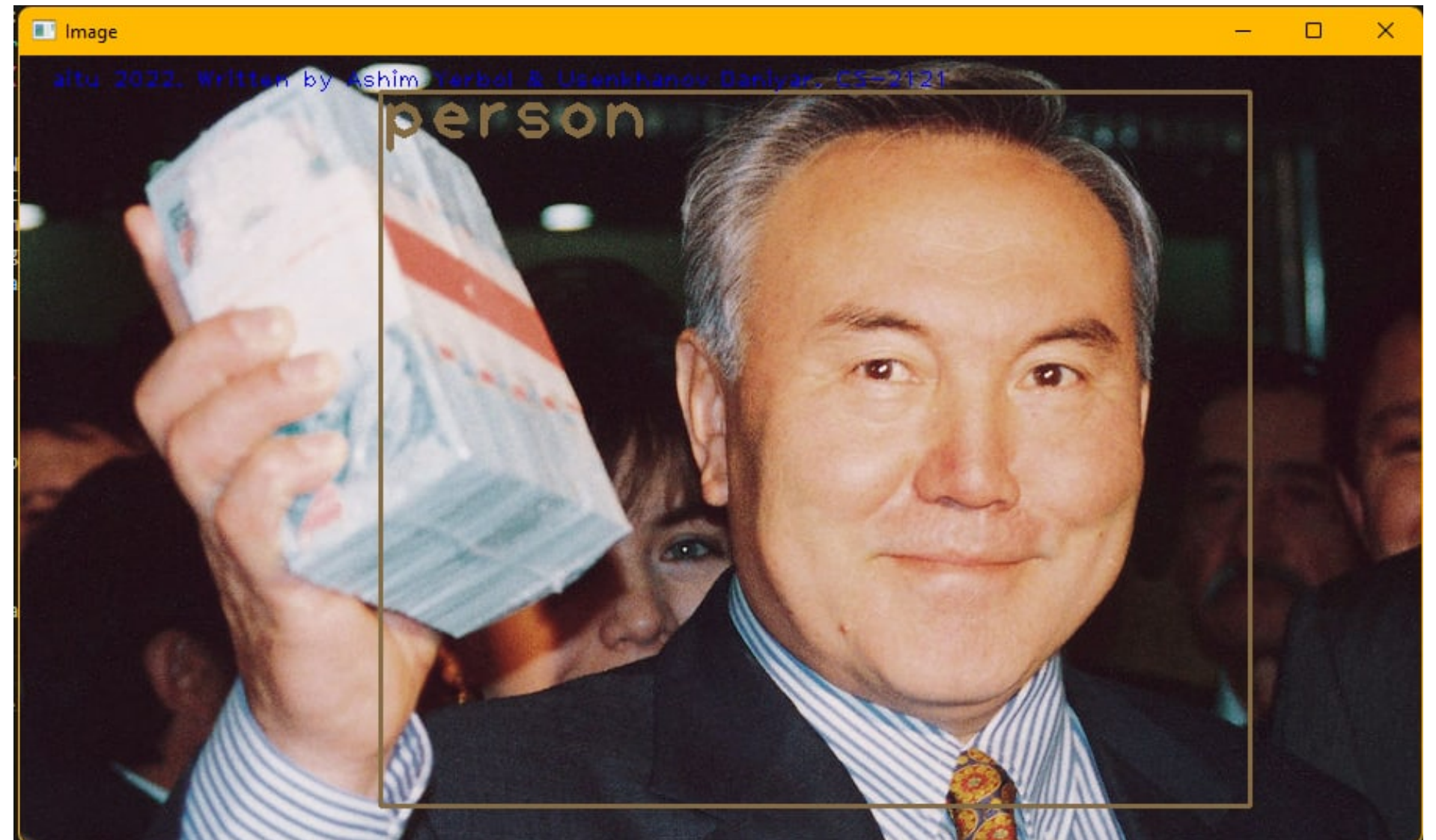


# Our project

We have written code to detect objects in photos, videos and live. For this, the models yolov2.

2 different functions were written to detect objects in video and photo with usage Opencv.

Let's take a look at these functions.



# Function for images

- **How did you distribute tasks among team members?**

We threw a coin, the one who got an eagle worked with pictures, and the other with video.

- **What new things did you learn while developing the project?**

Everything. From teamwork to AI libraries.

- **What difficulties did you face while creating the project?**

It's no secret that at the moment our Internet is being actively trumpeted, because of this there were moments when we did not have the opportunity to communicate and work on the project. I had to work at night.

- **What experience did you get while doing project work?**

Experienced joy when the project was launched. It was very interesting to work with AI modules.