



Yessenov
Data Lab

PROGRAM

DRAFT

 Shakhmardan
Yessenov
Foundation

June 15 –
July 10

Almaty 2026



Format	4-week intensive program: 2 weeks online + 2 weeks offline (Almaty)
Online	June 15 – June 26, 2026
Offline	June 29 – July 10, 2026 Almaty
Class hours	10 a.m. – 6 p.m. (Saturday and Sunday – days off)
Language of instruction	Russian / English
Technical requirements	Laptop without GPU. All ML/CV/LLM tasks are performed via API and inference.

4 weeks — and you'll be on the other side of the neural network:

Week 1

- June 16–20
- Vibe Coding for Data Work — online

Week 2

- June 22–26
- Fundamentals of Machine Learning — online

Week 3

- June 29 – July 3
- Large Language Models (LLM) and NLP — offline

Week 4

- July 6–10
- AI-Agent Development — offline





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What is YDL 2026?

This is a 4-week intensive school where professionals **TEACH** you to **TRAIN** models to:

- see and hear;
- recognize and classify objects (such as dogs and cats);
- make predictions;
- communicate in human language;
- work collaboratively.

You will build models yourself on your own computer and train AI-agents to perform practical tasks.

During the program you will:

- understand how neural networks work;
- stop thinking of LLMs as something mysterious or magical;
- gain experience in collaborative development;
- expand your professional network and interact with experts.



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SCHEDULE

Week **1** June 16–20



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Format: **online**

Topic: **Vibe Coding**
for Data Work

Lecturer:

Timur Bakibayev

Ph.D., professor, author of
Oqulabs and Actarum, creator
of the YDL curriculum



GOAL: Learn best practices for working
with data using AI tools and the vibe
coding approach.

Day 1

Introduction to Vibe Coding and AI tools

Day 2

Working with data

Day 3

Data visualization

Day 4

Introduction to forecasting

Day 5

Final project



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SCHEDULE

Week **2** June 22– June 26

Topic: **Fundamentals of
Machine Learning**

Format: **online**



Lecturer:

Kuanysh Abeshev

PhD, associate Professor, AlmaU,
Head of the AI Laboratory, “Orleu”
National Professional Development
Center, creator of the YDL curriculum



GOAL: Learn predictive analysis and machine learning methods using (sklearn, without GPU).

Day 1

Statistical analysis

Day 2

Regression modeling

Day 3

Classification: algorithms and evaluation metrics

Day 4

Unsupervised learning: clustering and dimensionality reduction

Day 5

Machine learning project

June 28 (Sunday)
Almaty
10 a.m. – 2 p.m.
TEAMBUILDING



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Week **3** June 29 – July 3

Language: English

Topic: Large Language Models (LLM) and NLP

Format: **offline**

Lecturer:

SURPRISE %)

GOAL: Understand neural network architectures and Computer Vision, and learn the fundamentals of NLP and theory of large language models.

Day 1

Neural networks

Day 2

Natural Language Processing (NLP)

Day 3

Computer Vision (CV)

Day 4

Transformers (GPT)

Day 5

Project presentation



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Almaty



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SCHEDULE



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Week **4** July 6–10

Language: English

Topic: AI-Agent
Development

Format:

offline



Lecturer:

Saed Hussein

Ph.D. Lead Machine Learning
Engineer, Sage UK

GOAL: Learn to build practical AI applications, including RAG systems, tool-based agents, and multi-agent pipelines via API.

Day 1

RAG — Retrieval-Augmented Generation

Day 2

Tool use and the first agent

Day 3

Agent memory and state management

Day 4

Multi-agent systems:
architectures and patterns

Day 5

Final project



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* This is a draft version of the program
and may be subject to change.



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We're always in touch!



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ALWAYS
IN TOUCH

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