ALTAI STATE UNIVERSITY

Master's Program in Computer Science and Engineering, «*Artificial Intelligence Engineering*»

Background of the issue

1. Grant from the Ministry of Education and Science in 2021 for the development of bachelor's and master's degree programs in the field of artificial intelligence

2. The application is submitted jointly with UrFU, there are 5 universities in total.

Уральский федеральный университет имени первого Президента России Б.Н.Ельцина

3. Winning the grant competition in 2021, receiving subsidies for the implementation of educational programs in 2022-25.

Background of the issue

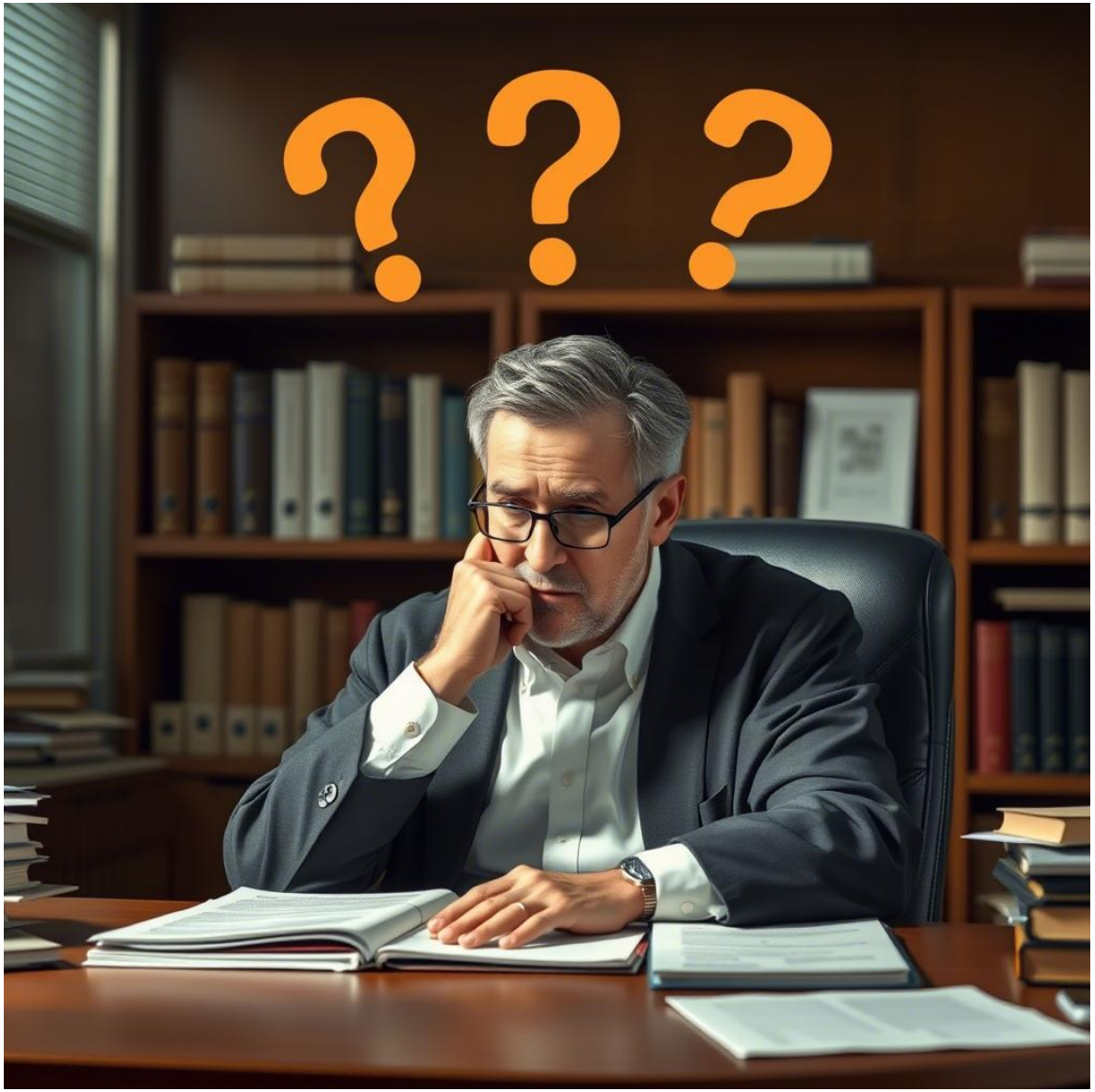
4 Formation of a unified curriculum for all universities participating in the grant in 2021

5 Educational content development in 2021-22

6 Implementation of the recruitment of students for the educational program 09.04.01 Computer Science and Computer Engineering, profile "Artificial Intelligence Engineering" in 2022.

7 The first Master's degree graduation in 2024 (16 people)

The grant is over, what's next?



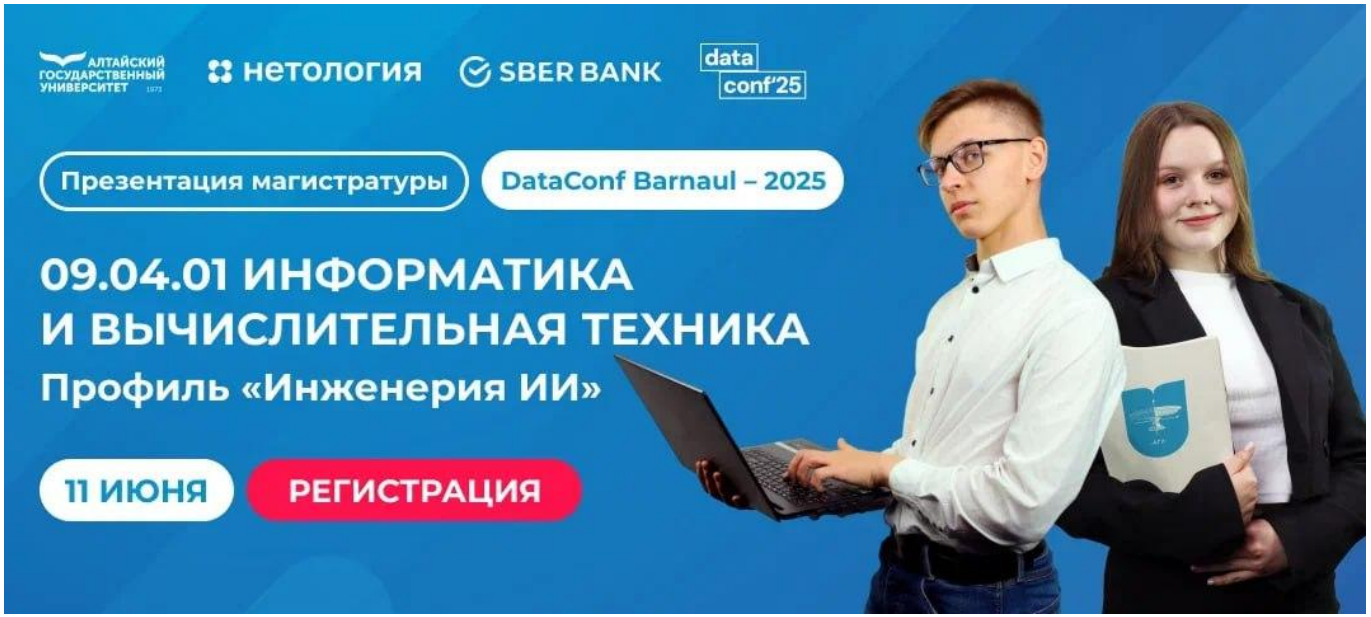
https://chat.qwen.ai/

A time for constructive change

https://chat.qwen.ai/

A time for constructive change

1. Making changes to the curriculum.
2. Search for new partnerships.



And what's under the hood?

https://chat.qwen.ai/

THE CURRICULUM: 1 SEMESTER (full-time)

Philosophy and methodology of science

Linux operating system
Programming in Python

Machine learning
Software Engineering
Mathematical foundations of artificial intelligence

Classical methods of computer vision
Project workshop

THE CURRICULUM: 2nd SEMESTER (full-time)

Machine learning
Mathematical foundations of artificial intelligence
Programming in a GIS environment

Neural networks. Deep learning
Big Data
Software Engineering
Sports Data Analysis

A foreign language in the field of business and professional communication

Project workshop

THE CURRICULUM: 3rd SEMESTER (full-time)

A foreign language in the field of business and professional communication

Neural networks. Deep learning
Big Data
Software Engineering

Natural language sound and speech processing
Time series analysis
Automating machine learning projects
Digital competencies in scientific activity
Artificial Intelligence Project Management

Project workshop

CURRICULUM: 4th SEMESTER (full-time)

Educational practice: technological (design and technological) practice

Production practice: research work

Completion and protection of the final qualifying work

CURRICULUM: correspondence course

The same subjects, but distributed in a different way over the semesters!

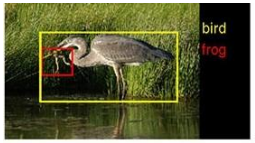
Please note that the duration of the correspondence course is 2 years and 3 months, and there will be traditional installation sessions + exam sessions.

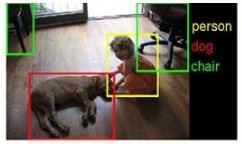
DATES OF SESSIONS:
1st and 2nd year – September, January, June
3rd year – October, November – graduation!!!

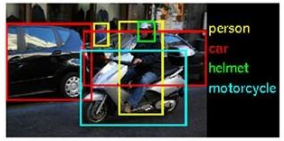
And what's under the hood?

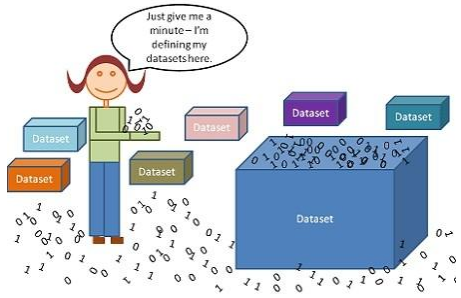
Main areas of research and work:

- Machine learning and data analysis
- Computer vision
- Natural language processing
- Data Engineering



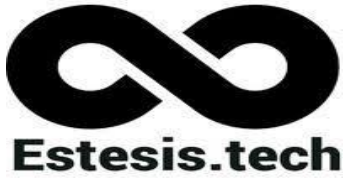






OUR INDUSTRIAL PARTNERS AND EMPLOYERS

University Consortium of Big Data Researchers



Success stories of our graduates

YULIA PSHENICHNIKOVA,
Java developer,
Sber, Barnaul

"In the first year of my master's degree, I participated in the «Я-ПРОФЕССИОНАЛ» Olympiad in Software Engineering and became a prize-winner. For this achievement, I received a scholarship for my research activities.

I had an actual dissertation topic: using images, it was necessary to identify the agricultural crops growing in the fields. It was not easy to work on the dissertation, but it was very interesting! Studying for a master's degree provided practical skills and fundamental knowledge that are very useful in the modern world of technology."

Success stories of our graduates

VLADIMIR LYAMKIN,
DevOps Engineer,
City system, Barnaul

"A long period of work in the regional department of a large bank led me to a career dead end. It was clear that something needed to be changed. ...found out about the master's degree IMIT and I thought this was my chance! The saying goes: "You can take a horse to a watering hole, but you can't make it drink."

Studying for a master's degree opened up access to such a "watering hole" for me, and I wanted to "drink knowledge" myself. Teachers, classmates, distance learning, and the very atmosphere of the university contributed to the acquisition of knowledge in the field of modern from technology. Mat. education and extensive practical experience in IT they served as a base that was enriched with new, modern skills and technologies. The result exceeded my expectations!"

Success stories of our graduates

DMITRY KHOMYAKOV, Automation Engineer, MPP, Kirov

"From the very first days, an exciting immersion into the world of machine learning artificial intelligence and neural network began. Two years flew by in one breath... The topic of my dissertation is "Image mining to determine the volume of incoming raw materials“

My path from a specialist in industrial process automation to a master's degree in AI engineering was filled with difficulties and challenges, but at the same time it became incredibly fascinating and informative. I am glad that I made this decision and recommend that anyone interested in AI not be afraid of new challenges and strive for knowledge."

Success stories of our graduates

ARTYOM ENOTKIN,
Head of ALD Studio,
Novosibirsk

"I enrolled in AI Engineering with a degree in mathematics/systems programming and many years of experience in IT. The field of AI is currently at its peak, and specific applied knowledge is becoming obsolete very quickly. Therefore, in my opinion, this master's degree profile should be perceived as obtaining stable skills in orientation in the field. You will not be given specific recipes for solving any problem, but you will receive a "map of the area" and the skills to choose the direction to solve them. And such knowledge does not become obsolete for decades. That's the main thing!"

Is there a place for every restless soul?

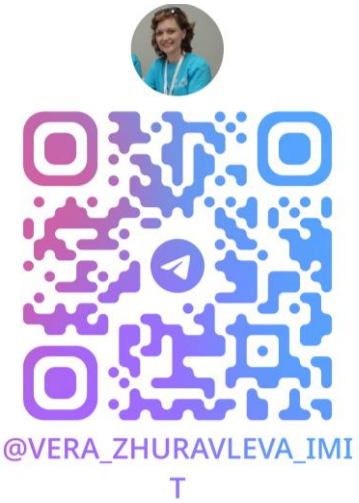
- There are 20 budget places for full-time education
- What if I didn't make it to the budget, but I have a bag of money? How much will a year of study cost?
  - 156,610 rubles.
- And if I'm working, how do I combine work with study?
  Master's degree classes are held in the evening, they usually start at 18:20, and on Saturdays they can be in the morning.
- Is there a correspondence course?
  Yes, there are 12 budget places for correspondence education, and paid tuition is 60,000 rubles per year.
  But it takes longer to study: 2 years and 3 months.

If you still have any questions...

OUR CONTACTS:

Head of the AI Engineering Program: Kozlov Denis Yurievich @Denis_Y_K

Admission Committee: Zhuravleva Vera Vladimirovna @Vera_Zhuravleva_IMIT



The website IMIT: math.asu.ru

Tuition fees

156 610 rubles **60 000 rubles**

Contract completion days

August 25th

IMIT MAGISTRACY Telegram Channel
@mag_imit

@MAG_IMIT