



**SATBAYEV
UNIVERSITY**

**Institute of Automation and Information Technologies
Department of Software Engineering**

**EDUCATIONAL PROGRAM
8D06102 Machine Learning & Data Science**

Code and classification of the field of education: **8D06 Information and communication technologies**

Code and classification of training directions: **8D061 Information and communication technologies**

Group of educational programs: **D094 Information technologies**

Level based on NQF: **8**

Level based on IQF: **8**

Study period: **3 years**









Amount of credits: **180**

Almaty 2025







Educational program 8D06102 Machine Learning & Data Science was approved at the meeting of K.I. Satbayev KazNRTU Academic Council.
Minutes # 12 dated «22» April 2024.

Was reviewed and recommended for approval at the meeting of K.I. Satbayev KazNRTU Educational and Methodological Council
Minutes # 6 dated «19» April 2024.

Educational program 8D06102 Machine Learning & Data Science was developed by Academic committee based on direction 8D061 Information and communication technologies.

№	Full name	Academic degree/ academic title	Position	Workplace	Signature
Field of Study: 6B061, 7M061, 8D061 – Information and Communication Technologies					
Chairperson of Academic Committee:					
1	Abdoldina Farida Nauruzbaevna	Candidate of Technical Sciences	Head of Department, Associate Professor	NJSC «Kazakh National Research Technical University named after K.I. Satpayev», mob. phone: +7 707 820 6525	
Members of the Academic Committee:					
Teaching staff:					
2	Mukhamediev Ravil Ilgizovich	Candidate of Technical Sciences	Professor	NJSC «Kazakh National Research Technical University named after K.I. Satpayev», mob. phone: +7 777 241 8672	
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9	Akylaev Zhasulan Akzholovich	Master of Science	Head of Department	Transactional systems testing department Transactional systems department of JSC Halyk Bank of Kazakhstan, mobile. phone: +7 771 701 2811	
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14	Halmatai Nurbek Kasymuly	-	Student, 3rd year	mobile. phone: +7 700 484 4808	

General information

№	Field name	Comments
1	Code and classification of the field of education	8D06 Information and communication technologies
2	Code and classification of training directions	8D061 Information and communication technologies
3	Educational program group	D094 Information technologies
4	Educational program name	8D06102 Machine Learning & Data Science
5	Short description of educational program	To provide practice-oriented training for specialists in scientific activities and production in the fields of data analysis, machine learning, and artificial intelligence. To prepare students for career prospects in academic and research activities, as well as in the industry as data analysts, software developers, machine learning engineers, and artificial intelligence researchers. To create conditions for conducting original scientific research in machine learning and data science, publishing research results in international and national peer-reviewed journals, developing and implementing machine learning algorithms to solve practical problems, and designing complex software systems for big data analysis.
6	Purpose of EP	The educational program is aimed at training a scientist who is able to independently conduct scientific research, develop comprehensive software solutions, work effectively in a team and innovate in the field of artificial intelligence and data science, taking into account the principles of sustainable development, digital inclusivity and ethics.
7	Type of EP	New EP
8	The level based on NQF	8
9	The level based on IQF	8
10	Distinctive features of EP	No
11	Education form	Full-time, online
12	Period of training	3
13	Amount of credits	180
14	Languages of instruction	russian, kazakh, english
15	Academic degree awarded	Doctor of Philosophy PhD
16	Developer(s) and authors	Abdoldina F.N., Moldagulova A.N., Mukhamediev R.I., Mukazhanov N.K.