



**SATBAYEV
UNIVERSITY**

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

**EDUCATIONAL PROGRAM
7M06102 Machine Learning & Data Science**

Code and classification of the field of education: **7M06 Information and Communication technologies**

Code and classification of training directions: **7M061 Information and Communication technologies**

Group of educational programs: **M094 Information technologies**

Level based on NQF: **7**

Level based on IQF: **7**

Study period: **2 years**


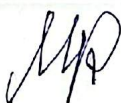


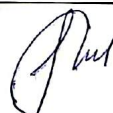

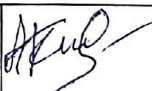
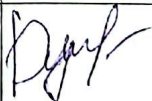

Amount of credits: **120**

Almaty 2025



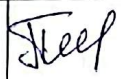


Educational program 7M06102 Machine Learning & Data Science was approved at the meeting of K.I. Satbayev KazNRTU Academic Council.
Minutes # 12 dated «22» April 2024.

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 7M06102 Machine Learning & Data Science was developed by Academic committee based on direction 7M061 Information and communication technologies

№	Full name	Academic degree/ academic title	Position	Workplace	Signature
Chairperson of Academic Committee:					
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General information

№	Field name	Comments
1	Code and classification of the field of education	7M06 Information and Communication technologies
2	Code and classification of training directions	7M061 Information and Communication technologies
3	Educational program group	M094 Information technologies
4	Educational program name	7M06102 Machine Learning & Data Science
5	Short description of educational program	<p>The main focus of the master's program is on an in-depth study of methods of machine learning, data analysis and software development technologies in the field of artificial intelligence.</p> <p>The program is aimed at training a high-quality specialist in accordance with the level of competence, capable of independently conducting scientific research, independently developing complex software solutions, working in a team, and navigating modern Information Technologies. The educational program is structured taking into account current trends in software development and in close connection with the manufacturing sector.</p>
6	Purpose of EP	<p>The goal of the educational program is to train Masters of Technical Sciences with specialized competencies in data analysis, machine learning, and artificial intelligence for the development of sustainable, inclusive, and ethically-oriented digital solutions, as well as the ability to conduct scientific research and carry out pedagogical activities in the field of information and communication technologies.</p>
7	Type of EP	New EP
8	The level based on NQF	7
9	The level based on IQF	7
10	Distinctive features of EP	Double diploma EP
11	Education form	Full-time
12	Period of training	2
13	Amount of credits	120
14	Languages of instruction	russian, kazakh, english
15	Academic degree awarded	Master of Technical Sciences
16	Developer(s) and authors	Abdoldina F.N., Mukazhanov N.K.