

«APPROVED»

Dean of the Faculty of
Information Technologies

L.N. Gumilyov ENU

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**Subject of master's theses on the educational program
7M06112- Artificial intelligence technologies for the 2021-2022 academic year**

1. Research using the artificial intelligence for email analysis
2. Research on the use of artificial intelligence for social network analysis
3. Information threat analysis through artificial intelligence
4. The role of artificial intelligence in computer security
5. Development of artificial intelligence system applications in the transport sector
6. The use of artificial intelligence in operating and search engines
7. Automation of control and accounting of energy resources
8. Decision-making based on data analysis
9. Optimal management of the administrative center using artificial intelligence
10. Problems of creating systems with artificial intelligence
11. Methods and tools for developing programs with intelligence
12. Using hardware and software tools to create intelligent systems
13. Application of artificial intelligence in electronics
14. The role of cloud storage in artificial intelligence
15. Application of neural networks in speech recognition
16. Application of neural networks in image processing and analysis
17. Research of special psychobiological algorithms for artificial intelligence
18. Considering the mechanisms of AI's limitless possibilities
19. Principles of processing huge amounts of information
20. Modern approaches in the organization of big data processing systems
21. Development of a forecasting system for optimal business decisions based on an artificial neural network with a training unit
22. Research of local neural networks in smartphones
23. Machine vision systems: an overview of the field of application and the problems
24. Research of components of machine vision systems
25. Control of production processes using machine vision systems
26. Development of simulation models using AI technologies
27. Design of artificial intelligence systems
28. The role of artificial intelligence in augmented and virtual reality
29. Natural language processing tools

30. Application of artificial intelligence in medicine
31. Research of cloud analytical AI platforms
32. Technologies for automatic face recognition
33. Development of an artificial intelligence system based on deep learning
34. Object recognition algorithms
35. Artificial intelligence capabilities in text recognition
36. Using Deep Learning to Process and Analyze Big Data
37. Tools for creating virtual assistants
38. Research and analysis of the functioning of intelligent systems
39. Analysis of machine learning algorithms
40. Artificial Intelligence Platforms for Credit Scoring
41. The transition of financial institutions to smart technologies
42. Methods and algorithms for the implementation of virtual assistants
43. Analysis and evaluation of the work of virtual assistants
44. Determination of the service efficiency of chatbots based on artificial intelligence
45. Research of platforms for trading securities with artificial intelligence capabilities
46. Fraud detection using artificial intelligence
47. Innovative fraud detection solutions for digital businesses
48. Electronic commerce narykyn arnalkan intellectuals baadarlamalyk zhasaktama sheshimderi
49. Development of algorithms for studying digital behavior of people
50. The role of artificial intelligence in the unmanned vehicle market
51. Technologies for creating a cartographic service
52. Self-driving systems training
53. Data analysis of the effectiveness of smart urban platforms
54. Deep Learning Applied to Video Streams
55. Advanced AI technologies
56. AI-powered analytics
57. Using artificial intelligence for the safety of operations on oil and gas platforms
58. Processing information about all objects in personal photographs of a person and their relationships
59. Application scenarios of artificial intelligence technology in different industries
60. Creation of systems for intelligent monitoring, prevention and containment of potential threats

Considered at a meeting of the Department of Information Security. Record № 6.1,
18.01.2021

**Head of the
Information Security Department**



Satybaldina D. Zh.