Review­­

for diploma work

of 3-year student \_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

of “Big data analysis educational program”

in Astana IT University

on the theme

“Prediction of optimal cancer treatment based on data analysis method”

The diploma work of the student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is written on the topic: "Prediction of optimal cancer treatment based on data analysis methods".

The urgency of the problem is caused by the difficulty of the cancer cell classification. Prescribed medication is directly related to the class of cell mutation. Once sequenced, a cancer tumor can have thousands of genetic mutations. But the challenge is distinguishing the mutations that contribute to tumor growth (drivers) from the neutral mutations (passengers). Currently this interpretation of genetic mutations is being done manually. This is a very time-consuming task where a clinical pathologist has to manually review and classify every single genetic mutation based on evidence from text-based clinical literature.

By reading the diploma work I understood that this work can be practically applied in the real life. It can help in classifying mutation of the cancer cerlls, which leads to the correct prescribing medicines.

The structure of the work is logical. The material is formatted correctly, presented consistently, systematically and accessible. The chapters reveal the topic, in the course of the work the objectives of the study are achieved, and the tasks are solved.

The advantages are the clarity of the author's position in solving the problems identified, the excellent practical significance, the validity of the conclusions and the usefulness of the proposals. The work presents a small number of graphic materials, which becomes a minor drawback of this diploma.

A deeper study of the proposed methods and their implementation in practice is recommended. To conclude, this diploma work should be evaluated as excellent.

The recommended mark – 95.

Diploma Project Reviewer

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