Ivan Dobrosovestnov

Middle ML engineer

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"I love interesting tasks and the opportunity to grow in a team"

Experience

Middle ML engineer (SIT Programming School)   *July 2022 - Present (Serbia, Belgrade)*

Analysis of student's programming code, improvement of the educational process through the integration of ML technologies:

- developed a system that detects abnormal behavior of students, such as cheating, misunderstanding of the material (also known as "fraud detection")
  - *US Patent "Method and system for classification of student progress in solving a complex problemMethod and system for classification of student progress in solving a complex problem №18/175,551 (Filed Feb 28, 2023, on patent pendind)*
  - *US Patent "Method and system for automatically assigning a behavioral category to a student's study" №18/175,551 (Filed Feb 28, 2023, on patent pendind)*
- developed an infrustructure for churn prediction analysis:
  - writing a full ML pipeline for working with big data
  - NLP analysis of CRM tasks
  - achieving 60% PR AUC Score when predicting student's churn
- developed infrastructure for ChatGPT promting to help fix the student's code
- developed Transformer Encoder-Decoder model for Knowledge Tracing
  - Paper "Profiling of Students' Competencies for Adaptive Learning Systems" *(bachelor's thesis)*

Teacher and Methodist (Moscow Programming School)   *2020 - 2022 (Moscow, Russia)*

- Teaching a C++ and Python courses
- Development of tasks for the inner olympiad and C++ course

Education

Higher Education (Bachelor)   *2019 - 2023*

- Higher School of Economics University
- Program: "Applied mathematics and Information Science"
- GPA: 7.79 / 10

Secondary General Education   *2017 - 2019*

- Higher School of Economics Lyceum
- Program: "Mathematics, Computer Science and Engineering"

Skills

Programming
- Python
- C++/ C

Technologies
- Advanced ML approaches
- ML Optimization methods
- Program Source Code Analyzing
- Computer Vision
- NLP
- Statistics
- Crowdsourcing

Frameworks
- Pytorch
- Hadoop, Spark
- Deploying:
  Jango, Git, CI/CD, Docker, Ansible, SQL, DVC