






# Mikhail Yudelson

*candidate of technical sciences & doctor of philosophy*

## CONTACTS

akyn@akyn-ai.ru

+1 (412) 721-7629  

+7 (985) 756-5343 

[linkedin.com/in/myudelson/](https://www.linkedin.com/in/myudelson/)

<https://myudelson.github.io>

## ABOUT ME

Accomplished specialist in data science, machine learning and artificial intelligence methods, holding a candidate of technical sciences degree in CAD/CAM and a doctor of philosophy in information sciences. I have management experience: developing solutions that cover millions of users daily, increasing the efficiency of computing methods, improving the user interface and human-machine interaction processes. I am looking for a managerial position in the field of data science, analytics, machine learning and artificial intelligence.

## KEY ACHIEVEMENTS

- **Advanced Analytical Pipeline and Machine Learning Development.** Implemented a Gen AI solution at Chegg, Inc. that enhanced the efficiency of a critical solver component by 11%.
- **Strategic Product Management.** Championed the diagnostic model at ACT, Inc., which enabled a new data product, doubled client engagement.
- **Research and Publishing Excellence.** Coauthor of 2 US patents, and 90+ peer-reviewed papers; organized 5 workshops and 1 conference, delivered 20+ academic and industrial conference presentations.

## EDUCATION

**RT Academy of International Journalism** 2025  
*international journalist*

**University of Pittsburgh, USA** 2004–2010  
*doctor of philosophy, information sciences*

**Ivanovo State Power University, Russia** 2001–2004  
*candidate of technical sciences, computer aided design and manufacturing systems*

## PROFESSIONAL EXPERIENCE

**myProse, Carnegie Mellon University startup** IX/2025–now  
*chief technology officer*

- Dealing with technological uncertainty and infrastructure.
- Defining value proposition and go-to-market strategy.
- Leading developing of a minimal viable product.

**Akyn Avtomatika** I/2023–now  
*founder*

- Designed a text-to-speech data infrastructure raising the output of a publishing group 5-fold.
- Built a multi-platform architectural solution used by 20 journalists for speech processing.

## SKILLS

### Technologies

- Python
- R
- SQL
- C/C++
- Java
- DataBricks
- AWS
- TensorFlow
- PyTorch
- Terraform
- JIRA
- Confluence

### Methods

- statistics and regression analysis
- building, maintaining and evaluating machine learning models
- data modeling
- data engineering
- natural language processing
- deep learning
- SaaS
- agile
- CI/CD

## PUBLICATIONS

Papers: 96

Citations: 2800

H-index: 28

## LANGUAGES

Russian – native

English – professional mastery

### **Chegg, Inc., USA**

VI/2022–I/2025

*staff machine learning scientist*

- Developed a retrieval-augmented generation (RAG) service and carried out 20+ analytical experiments.
- Spearheaded fine-tuning a Gen AI model for extracting expressions boosting service component's accuracy by 11%.
- Initiated and led retrieval-augmented generation prompt development covering 20+ feature-engineering and data analysis experiments and leveraging 5 business logic checks.

### **BrainPOP, Inc., USA**

IV/2021–VI/2022

*principal machine learning & AI engineer*

Led product development of ML/AI information system and data governance infrastructure for a suite of NLP solutions and data pipelines.

### **ACT, Inc., USA**

VII/2017–IV/2021

*senior research scientist/senior software developer, emerging technologies department*

- Instrumented a diagnostic model project improving user experience for 100,000+ students solving 3.3M problems a month, adapted the model for 2 external vendors.
- Devised an algorithm-selecting workflow that became part of 1 granted U.S. patent.

### **Carnegie Mellon University, USA**

I/2016–V/2017

*project scientist, human-computer interaction institute*

- Coordinated efforts on scaling a suite of affect detectors to serve up to 60 million students.
- Co-authored a man-machine tutoring method featured in 1 publication with 20 citations.

### **Carnegie Learning, Inc., USA**

III/2013–I/2016

*research scientist*

- Optimized an algorithm serving 0.5 million students a year to save 37% of the in-app time.
- Headed a multi-team effort analyzing data of 350 000 users and built analytical pipeline.
- Brokered a transfer of 1 billion records of user data from the vendor and carried out 1000+ data modeling replays.
- Co-authored and presented 10 publications to promote the company's scientific leadership.

### **Carnegie Mellon University, CIIA**

X/2010–II/2013

*post-doctoral fellow, human-computer interaction institute*

- Created and published a novel model of student learning (publication received 600+ citations).
- Developed an industry-first open-source tool to fit Bayesian models on up to 1 billion records.