

# Kartik Joshi

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[github.com/kartikj360](https://github.com/kartikj360)

## Education

**National Research University Higher School of Economics, Moscow, Russia,** August 2023 – July 2025  
M.S. in Applied Mathematics and Artificial Intelligence

- **GPA:** 8.1/10
- **Coursework:** Modern Methods of Decision Making, Ordered Sets in Data Analysis, Linear Algebra for Data Science, Machine Learning and Data Mining.
- **Thesis:** Robust and Accurate Analysis of Data Modalities in Mass Spectrometry

**University of Delhi, India,** B.S. in Computer Science December 2020 – July 2023

- **GPA:** 8.9/10
- **Coursework:** Software Engineering, Database Management Systems, Operating Systems, Computer Networks, Design and Analysis of Algorithms.

## Experience

**Research Assistant,** Laboratory on AI for Computational Biology at HSE, Moscow, Russia January 2024 – Present

- Conducted experimental research on proteomics databases (10 TB)
- Developed two machine learning pipelines
- Developed a spectra plotting software
- Increased peptide database diversity by 40%

**Centralized Allocation Facilitator,** The E.C.A. Commission of the University of Delhi, Delhi, India October 2022 – December 2022

- Assisted in the efficient allocation and management of university resources.

## Projects

### Meta-Proteomics ML Pipeline

- Curated over 600 GB of clean spectral data and more than 2 TB of modulated data for DL-based de novo models
- Processed and managed 100 TB of raw mass spectrometry data

### Heart Patient Dataset for Classification

- Built a classification model achieving 90% accuracy in predicting patient mortality

### SECURE SCAN

- Developed a secure QR code scanner by applying software engineering principles; ensured compatibility with all standard QR code types.

## Achievements

August 2023

**HSE Gold Scholarship Recipient** - Awarded a full tuition scholarship (100%) by the Russian Government

July 2023

**Best Student of the Department (Faculty of Computer Science)** - Recognized for highest academic excellence

## Skills

**Technical:** Python, SQL, R, C++ , Machine Learning, Big Data Analytics, Deep Learning, Computational Biology

**Soft Skills:** Analytical Thinking, Problem Solving, Teamwork, Communication, Client Focus, Organization