

Anastasiya Kotelnikova

New York, NY | New Jersey

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GitHub: github.com/AnastasiyaKotelnikova

Portfolio: anastasiyakotelnikova.github.io/Portfolio

DATA SCIENTIST | MACHINE LEARNING | AWS CERTIFIED

Data Science graduate student with hands-on experience in machine learning, deep learning, and big data systems. Strong background in Python, SQL, and AWS, with practical experience building and deploying data pipelines and ML workflows using EC2, S3, IAM, Hadoop, and MapReduce. Currently supporting production systems as an IT Support Technician at NJIT while completing an MS in Data Science. Focused on scalable, reliable, and ethical data-driven solutions.

CERTIFICATIONS

- AWS Certified Cloud Practitioner (Jan 2026)
 - AWS Certified Developer – Associate (Jan 2026)
 - AWS Certified Solutions Architect – Associate (Jan 2026)
 - AWS Certified AI Practitioner – Associate (Jan 2026)
 - Graduate Certificate in Big Data Essentials — NJIT (May 2025)
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TECHNICAL SKILLS

Programming: Python, SQL, R, Java

Machine Learning: Scikit-learn, TensorFlow, PyTorch, Norse

Data & Visualization: Pandas, NumPy, Matplotlib

Cloud & Big Data: AWS (EC2, S3, IAM), Hadoop, MapReduce, HDFS, Apache Spark

Tools: Git, GitHub, Linux/Ubuntu, Jupyter Notebook, Google Colab, VS Code

Concepts: Feature Engineering, Data Wrangling, Model Evaluation

Other: Tableau, Agile/Scrum, Version Control

EXPERIENCE

New Jersey Institute of Technology (NJIT) — Newark, NJ

IT Support Technician | Jul 2025 – Present

- Provide technical support for classroom, lab, and instructional AV systems in a production academic environment
- Troubleshoot Windows systems, network connectivity, peripherals, and BYOD configurations
- Use Webex and campus ticketing systems to track issues and coordinate resolution
- Assist with diagnostics, maintenance, and inventory of computing and AV infrastructure
- Collaborate with faculty and IT teams to ensure minimal disruption to instruction

Previous Experience (Selected)

Digital Marketing Analyst | Enrollment Specialist | Quality Assurance — 2009–2024

EDUCATION

Master of Science in Data Science

New Jersey Institute of Technology (NJIT) — *Expected May 2026*

Graduate Certificate in Big Data Essentials

New Jersey Institute of Technology (NJIT) — May 2025

Bachelor of Science, Business Administration & Management

Montclair State University

PROJECTS

Human vs AI Text Classification

- Built and evaluated ML models to classify AI-generated vs human-written text using Python
- Implemented preprocessing, feature extraction, and model evaluation pipelines

Spiking Neural Networks (PyTorch & Norse)

- Designed and trained biologically inspired spiking neural networks
- Benchmarked performance against traditional neural networks

AWS MovieLens Big Data Analysis

- Implemented Hadoop MapReduce workflows on AWS EC2 and HDFS
- Analyzed scalability and performance of distributed data processing pipelines