

Aleksandra Georgievska

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EXPERIENCE

Adjunct Lecturer

CUNY Queens College, Computer Science Department

New York, NY

Jul 2024 - Present

- Supporting coursework lectures by leading labs in C++, Java, algorithmic analysis, data types, objects, classes, methods, basic data structures, procedures, functions, parameters and arguments, scope and lifetime of variables, I/O

Jr. Software Development Engineer in Test

nuArch [link](#)

New York, NY

Jul 2024 - Sep 2024

- Leveraging Java, Spring, Selenium, the Atlassian suite (Jira, Bitbucket, Confluence), Agile/Scrum methodologies and an in-house automation framework to develop automation test cases for multiple NYC DOE projects
- Enhancing the framework's technical documentation by designing UML diagrams and articulating class structures and inheritance patterns, improving developer understanding and facilitating easier maintenance of the framework

Full Stack Data Science Consultant

Company Ventures [link](#)

New York, NY

Jul 2023 - Present

- Handled end-to-end development and deployment of a data processing pipeline and a rule-based NLP classification model consisting of 15,000+ lines of code using Python (Pandas, Numpy, NLTK, Scikit Learn) as a solo consultant
- Developed, tested, and deployed a web UI (Flask, HTML/CSS, Heroku, OOP) to encapsulate the pipeline and model
- Enhanced client decision-making by implementing a scalable, data-driven strategy that automated daily rankings of hundreds of potential founders, increasing targeted marketing outreach response rates from 1-2% to 15%
- Independently led the model development lifecycle (selection, training, evaluating, tuning), achieving 90% accuracy
- Leading the integration of a relational Airtable database with the data pipeline via API calls, creating data integrity protocols, user permissions, and event-driven automations to enhance security, and operational efficiency
- Creating the end-user, operational, and technical documentation for the database, front end, backend, and models

Data Science Consultant

Kubera Health [link](#)

New York, NY

Mar 2024 - Jun 2024

- Laid the foundation for Kubera's analytical data product development by engineering robust data pipelines with Python (Selenium) for automated ingestion and preprocessing of healthcare data, establishing an early-stage PostgreSQL database with automated schema creation and data storage
- Directed the research and evaluation of third-party solutions by authoring comprehensive product requirements and technical documentation, and conducting meetings with sales representatives, accelerating time-to-market
- Reported directly to the CEO, playing a pivotal role in decision-making and contributing to strategic planning using Jira and Agile methodologies, independently managing project timelines and deliverables

Machine Learning Research Intern

CUNY Queens College, Dr. Jonathan Gryak

New York, NY

May 2023 - Dec 2023

- Implemented a cutting-edge bioinformatics ML model ("LUCCK", Learning Using Concave and Convex Kernels), creating a clinical decision support system for detecting food allergies, by cleaning clinical study data, performing model training and evaluation against pre-trained models (GNB, LogReg, RF, SVM), and developing an external validation set to verify the model's predictive capability, achieving AUC 0.993, sensitivity 0.986, and specificity 1

FELLOWSHIPS

Data Science Research Fellow

Microsoft Research, DS3

New York, NY

May 2023 - June 2023

- Collaborated with MR scientists on a four-week R-based study [analysis](#), identifying discrepancies in a published paper's results, leading to a formal correction and our work's acknowledgment in the prestigious journal, PNAS

Data Science Fellow

CUNY Tech Prep

New York, NY

Aug 2022 - Jun 2023

- Co-engineered [Vibify](#), an NLP analysis tool to classify the sentiment of lyrics, utilizing Streamlit, TensorFlow, and NLTK
- Won first place in a hackathon with the development of [MyMuscle](#); Served as program Ambassador

Machine Learning/AI Fellow

Break Through Tech at Cornell Tech

New York, NY

Jul 2022 - Sep 2022

- Worked with industry partner UNHCR to analyze email data, identifying predictive features for donation candidates

EDUCATION

Computer Science B.S., CUNY Queens College

Joyce Warren Scholarship | Dean's List | GPA 3.57

Queens, NY

May 2020 - Dec 2023

Contemporary Writing & Production B.A., Berklee College of Music

Boston, MA

2007 - 2011

PUBLICATIONS

"Prediction of Pediatric Peanut Oral Food Challenge Outcomes Using Machine Learning", Gryak et al., JACI:Global, 2024