

Flora Dedvukaj

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Portfolio: florad17.github.io/flora-portfolio

EDUCATION

- Fordham University** New York, NY
B.S. in Computer Science and Mathematics Aug 2021 - May 2025

SKILLS SUMMARY

- Languages:** Java, C++, Python, HTML/CSS, C, SQL, Ruby, Swift/iOS, TypeScript, Albanian, French
- Tools/Libraries:** Microsoft Excel, Tableau, TensorFlow, numPy, SciPy, Keras, PyTorch, Redux, Linux, Matlab, React.js, Node.js, MongoDB, Postman, Git, BeautifulSoup, AWS

DATA EXPERIENCE

- Data Science Intern** New York, NY
Burt Intelligence. Jun 2024 - Aug 2024
 - Created scalable chatbot architecture using AWS services such as Bedrock, SageMaker, and S3
 - Implemented RAG (Retrieval-Augmented Generation) using Kendra and LanceDB for document retrieval
 - Developed real-time Lambda functions for low latency
 - Set up API Gateway for RESTful API Interaction
- AI Developer** Remote
Google Gemini AI Hackathon Apr 2024 - May 2024
 - Developed an AI-powered **Prompt-Based Playlist Generator** to automatically create music playlists.
 - Used Google's Gemini API for real-time, text-based music playlist generation, integrating deep learning and NLP
 - Developed the front end using ReactJS/Redux for state management ensuring real-time user interaction
 - Fine-tuned TensorFlow and PyTorch models employing transfer learning and gradient descent optimization
- Artificial Intelligence/Machine Learning Fellow** New York, NY
Fordham University - Computer Science Department Jan 2023 - May 2023
 - Developed, trained, and fine-tuned machine learning models, including decision trees, support vector machines (SVM), and deep neural networks, conducting experiments to assess model performance using metrics like accuracy, precision, recall, and F1-score
 - Investigated advanced AI/ML methodologies, such as neural networks, reinforcement learning, and natural language processing, and assessed their applications across industries
 - Reviewed academic literature and attended conferences on deep learning, computer vision, and ethical AI
 - Leveraged TensorFlow and Keras for data preprocessing, model building, and hyperparameter tuning, analyzing large datasets to uncover patterns and improve model accuracy

PROGRAMMING EXPERIENCE

- Mathematics Undergraduate Research Assistant - Prof. Han Bom Moon** New York, NY
Fordham University - Mathematics Department Jun 2023 - Aug 2023
 - <https://arxiv.org/abs/2310.09293v1>
 - Authored and presented research findings on space-filling curves at various conferences such as JMM 2024
 - Constructed specific examples of algebraic space-filling curves in three-dimensional projective space, with a focus on those with the smallest possible degree
 - Developed new geometrical constructs in three-dimensional projective spaces using Macaulay2 and Python, including NumPy and SciPy libraries, to perform advanced algebraic computations
- Full-Stack Web Developer** New York, NY
Baresha Cafe Dec 2022 - Jun 2023
 - Utilized HTML/CSS to develop a visually appealing and interactive full-stack website for a small business
 - Implemented React.js and AOS CSS library for a dynamic and interactive experience
 - Implemented MongoDB for hosting e-commerce site and API tested using Postman
 - Deployed site using Vercel

ACTIVITIES AND AFFILIATIONS

Sigma Xi Research Society | Mathematics Club Treasurer | Fordham Computer Science Society