

Abdullah Paracha

📍 Montreal ✉️ abdullahfparacha14@gmail.com ☎️ (343) 988 0823 🔗 abudyy.github.io/portfolio-website/
in [abdullah-paracha](#) 🔄 Abudyy

Education

B.Sc. McGill University, Computer Science and Biology 2021 – 2026
• **Coursework:** Applied Machine Learning, Intro to Software Systems, Data Structures, Statistics, Linear Algebra

Skills

Languages: Python, C, Java, SQL, JavaScript, HTML, CSS, Bash

Technologies: Flask, React, Git, Pandas, NumPy, Matplotlib, MATLAB, PyTorch, Scikit-learn, APIs, Heroku, Render

Experience

McGill Cricket Club (MCC), VP Events Montreal, CA
Sept 2024 - Present
• Planned an inter-university tournament with over 50 participants, and a cricket tour overseas for the McGill team.

Self-Employed, Mathematics Tutor Dubai, UAE
May 2023 - August 2023
• Taught mathematics to a diverse age group, prioritized critical thinking and fun challenges.

Projects

Book Recommendation Site 🔗 [Book-Recommendation](#)
• Developed a personalized book recommendation system using a dataset of over 1.1 million ratings from 278,000 users and 271,000 books.
• Improved recommendation accuracy by 25% through optimized similarity calculations and data preprocessing.
• Deployed as a web app using Flask and Render, making it scalable and accessible online.

Organ Classification 🔗 [Organ-Classification](#)
• Built a convolutional neural network (CNN) and MLP to classify medical images from the OrganAMNIST dataset, containing 58,830 images across 11 organ classes.
• Achieved a test accuracy of 88.02% by optimizing the model using PyTorch and data augmentation techniques.
• Tested different learning rates and layers to optimize model performance and improve classification accuracy for future applications

EDA and Regressions 🔗 [EDA-Regressions](#)
• Performed Exploratory Data Analysis on both the Infrared Thermography Temperature and CBC diabetes indicators dataset with over 1,000 instances to identify key correlations and optimize features.
• Improved Mean Squared Error (MSE) from 0.0613 to 0.0604 by implementing mini-batch Stochastic Gradient Descent (SGD)
• Improved model performance with 86.24% test accuracy in the logistic regression model by optimizing model parameters and scaling techniques.

Interactive Portfolio Website 🔗 [Portfolio-Site](#)
• Designed and developed a portfolio website to showcase my projects and skills.
• Built using HTML, CSS, JavaScript, React, and ThreeJS with a focus on responsive design and user experience.