

# Abdullah Paracha

📍 Montreal    ✉️ [abdullahfparacha14@gmail.com](mailto:abdullahfparacha14@gmail.com)    ☎️ (343) 988 0823    🔗 [abudyy.github.io/portfolio-website/](https://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.