

# PARTH DOSHI

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## EDUCATION:

Bachelor of Computer Science: Dalhousie University - Halifax, NS

## SKILLS:

- Java, Python, PyTorch, Tensorflow, SQL, Machine Learning, MERN stack, PHP, JavaScript, React
- Motivated self-learner, Attention to Detail, Strong technical aptitude, Multitasking, Superior verbal and written communication,

## PROJECTS AND WORK EXPERIENCE:

### Letter Identifier (CNN Model)

- Developed a CNN in Python without using PyTorch/TensorFlow, using base concepts like gradient descent and vector multiplications in the ML engineering ecosystem.
- Trained CNN on big data analysis and visualization to recognize hand-written letters using the machine-learning algorithm with up to 85% accuracy
- Available at: <https://www.kaggle.com/code/pardoshi/parth-mnist>

### QuickCash (Android Application)

- Software development using Java in Android Studio that processes real-time data through the Firebase Realtime database. Also available at: [https://git.cs.dal.ca/mavani/csci3130\\_group\\_3](https://git.cs.dal.ca/mavani/csci3130_group_3)
- Using methodologies like Agile, Test-Driven Development, and pair programming within a team showcasing testing, profiling, and debugging practices alongside pairing skills
- Acquired expertise in Git, demonstrating effective version control and collaboration skills. This knowledge contributes to a skill set for efficient and high-quality software development.

### On-Board Computing Team (AI), 10/2023 - 12/2025

- MANTIS is the second CubeSat nano-satellite launched by Dalhousie University into low-Earth orbit.
- Our team of 9 students is working on different aspects to build a machine learning algorithm using TensorFlow to predict the greenery in an area showcasing my ability to collaborate.
- Using Python, I am working on data serialization integrating software and hardware of the nano-satellite and image processing algorithms of images coming in every 2 weeks.

### Udemydemo (Web-application)

- Co-developing an online learning platform inspired by Udemy, with a peer, facilitating seamless video uploading and viewing experiences depicting proficiency in Visual Studio.
- Utilized React as the framework and about 93% JavaScript to ensure an interactive, dynamic user interface and NodeJS and MongoDB for the backend.
- The collaborative project showcases my skills in web development and is accessible on GitHub at <https://github.com/p-doshi/udemyDemo>

### Team Leader, McDonald's (10/2022 to Current)

- Monitor team performance of 8-12 people during a shift and provide constructive feedback through strong communication to increase productivity and maintain quality standards
- Maintaining low-cost labor and food wastage using data-driven and analytical solutions