

PARTH DOSHI

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EDUCATION:

Bachelor of Computer Science: Dalhousie University - Halifax, NS

09/2022 - 05/2026

SKILLS:

- **Java, Python, PyTorch, Tensorflow, SQL,** Machine Learning, **Unix/Linux command line and bash scripting,** NLP, CNN
- Motivated self-learner, Attention to Detail, Strong technical aptitude, Multitasking, Superior verbal and written communication,

PROJECTS AND WORK EXPERIENCE:

Project MANTIS: OBC-AI (Dalhousie Space Systems),

- MANTIS is the second CubeSat nano-satellite launched by Dalhousie University into low-Earth orbit.
- Our team is working on different aspects to build a **machine learning algorithm** using the Deep Learning package **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.

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 **86% accuracy**
- Available at: <https://www.kaggle.com/code/pardoshi/parth-mnist>

Nurse Navigator (Web-based AI Chatbot)

- Created web interface using **Angular** and **TypeScript** integrated with an **AI model**.
- Developed during a hackathon for aiding nurses as the chatbot answers healthcare-related questions.
- This conversational AI uses ChatGPT **Rest API** trained on a dataset unique to every hospital.

Data Extractor (NLP)

- A program capable of reading and differentiating articles from actual websites, read the web page and only store the article without a header, footer, or other useless items in a file.
- An **NLP** algorithm then uses this data to give different data like subjectivity score, average sentence length, complex word percentage, and many more.
- This project is available at: <https://github.com/p-doshi/data-extractor>

QuickCash (Software Engineering)

- **Software development** using Java in Android Studio that processes real-time data through the Firebase(**NoSQL**) Realtime database. Also available at: 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