Jenisha Patel

jenisha.patel@mail.mcgill.ca
jenipatel.com | **github.com/jenip13**

Work Experience

Data Science Intern, Canadian Space Agency 04/2019–08/2019
- Developed Python and R scripts to digitize and analyze satellite imagery data
- Built an open data portal demo using CKAN, a Python-based open-source data platform
- Cleaned and provided feedback on datasets for the Space Apps Challenge hackathon

Research Assistant, McGill Department of Bioengineering 01/2017-08/2018
- Developed Python and Bash scripts to analyze large genomic datasets
- Investigated parallel computing methods involving bacteria

Scheduling Intern, Dash Computer Solutions 06/2015–08/2017
- Designed master schedules for high schools and elementary schools using an in-house matrix reporting structure-based tool
- Negotiated with administrators to solve issues due to conflicting constraints

Leadership Experience

Co-President, McGill Women in Computer Science 04/2019–04/2020
- Co-lead a team of 9 executive members to organize initiatives that promote gender diversity in tech
- Lead a team of 4 executive members to organize a hackathon for 250 students

Signal Processing Team Lead, McGill Neurotech 01/2019–06/2019
- Lead a team of 6 students to develop Python and MATLAB scripts to analyze, visualize and extract useful features from raw EEG data

Events Coordinator, McGill Women in Computer Science 09/2018–04/2019
- Co-organized workshops, speaker series, industry visits and networking events

Conference Program Coordinator, Canadian Federation of Engineering Students 09/2016–12/2016
- Organized 60 keynotes, speakers, panelists and workshop facilitators for a three-day conference bringing together 250 Engineering student leader from across Canada

Selected Projects

MILO: a brain-controlled wheelchair, Neurotech McGill 01/2019–05/2019
- Lead the signal processing sub-team to help build a EEG-controlled wheelchair
- Awarded 1st place project by the 2019 International NeurotechX Student Club Competition

MR-Ai: a bad MRI scan detector, Ai for Social Good Lab 05/2018–06/2018
- Co-developed a Python-based desktop application with an integrated neural net to detect motion artefacts (blurriness due to movement) in MRI scans.
- Awarded 1st place project by Google DeepMind

chattERP : a p300 speller brain-computer interface, Neurotech McGill 01/2018–05/2018
- Co-developed scripts to parse raw EEG data for a brain-computer interface that uses EEG brain signals to spell out words that a person is thinking on a screen
- Awarded 1st place project by the 2018 International NeurotechX Student Club Competition

Education

BEng in Bioengineering, minor in Computer Science, McGill University 09/2016–05/2020
- Cumul. GPA: 3.88/4.00

Machine Learning Certificate, Stanford University (Coursera) 06/2019–07/2019

Ai for Social Good Fellowship, Ai for Social Good Lab 05/2018–06/2018
- Learned technical concepts in machine learning, computer vision, prototype development and design

Skills

Programming and markup languages
- **Advanced**: Python **Intermediate**: R, MATLAB, Bash, LaTeX **Basic**: HTML/CSS, C, Java, SQL, OCaml

Human languages
- Fluent in English and Français