MAX GILLHAM

DATA SCIENTIST

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EMPLOYMENT

Aug. 2018 to Current	**InFeild ID** · Data Scientist · Kingston ON
	Developing supervised machine learning algorithms to classify different plant pests and invasive species. Working on a contractual basis during my undergrad.
May 2018 to Aug. 2018	**RBC Amplify - Capital Markets** · Data Scientist · Toronto, ON
	Worked on a team of 4 to create an artificial intelligence based recommendation engine for RBC Capital Markets. Developed microservices in python for a web based application to exploit under-utilized data with supervised and unsupervised machine learning. Engineered data flow through queries, cleaning and normalization. Conducted statistical analysis to introduce new client insights. Various machine learning algorithms were patented by RBC.

PROJECTS

Sept. 2018	**Structurall (Hack MIT)**
	Created a web-app to add structure to phone call audio. Used Revspeech API to map speech to text and Microsoft's Azure Text Analytics to conduct sentiment analysis and locate key phases.
Feb. 2018	**NFLSenp.ai (Qhacks)**
	A basic web-app to predict the winner of NFL games by leveraging supervised machine learning. Developed by analyzing marginal statistics of two competing teams from MySportsFeeds API and trained a binary classifier in TensorFlow.
July 2018 to Current	**Beatbox to MIDI**
	Map audio recordings of beatboxing to midi files. Take transients found in audio recordings and fingerprint by spectrogram. Feed spectrogram data as inputs into a trained machine learning model to determine the corresponding drum sounds and compile into a midi file.

SKILLS

LANGUAGES	Python, Matlab, Java, JavaScript, SQL, C/C++, Bash
TECHNOLOGIES	Supervised/Unsupervised Machine Learning, Data Visualization, Data Analysis, Data Modelling

AWARDS

Sept. 2018	**Hack MIT Finalist**
	Placed top 10 out of 1000 students at MIT's annual Hackathon for Structurall project.
Sept. 2018	**Best Innovative Use of Artificial Intelligence**
	Achieved at Hack MIT for Structurall project
Feb. 2018	**Best Domain Name**
	Awarded best domain name at Qhacks 2018 (NFLSenp.ai)

ACTIVITIES

	Hackathons · Participant
	Qhacks. HackMIT, Cal Hacks
	WildCard (Band) · Lead Guitarist
	Participated in a 5-piece rock band, performing weekly

EDUCATION

Sept. 2015 to Current 2019	**Queen's University**
	BAS Applied Mathematics & Computer Engineering