Michael Gallimore   Machine Learning Engineer

CONTACT

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PORTFOLIO
Personal blog
MLSquamish – **founder**
GitHub

PROFESSIONAL EXPERIENCE

ML Engineer | Nov 2023 – Apr 2024
Environment And Climate Change Canada

- Developed an open source CNN birdsong recognition system, which outperforms the SOTA models for the target species.
- Developed tooling to analyze results and to label data.
- Collaborated with biologists from University of Alberta and ECCC teams to ideate, establish project goals, and learn necessary domain specific information.

Data Scientist | Dec 2021 – Jul 2022
Easy Expense

- Developed a method to process noisy OCR text from the receipt scanner of an expense tracking app.
- Developed a variation on naive bayes classification to predict category and vendor, delivering an improvement from 40% to 80% accuracy for each of these categories– a system which is still in production.
- Solved numeric and NLP problems and developed a language model to detect the line containing total price.

EDUCATION

University of Salford Manchester | 2007–2012
BSc Hons Acoustics

Modules included Electronics, Mathematics (calculus, statistics and applied), Programming, Computer Simulation, Digital Signal Processing, Acoustics and Electroacoustics, Speech Technology, Room Acoustics.

FastAI – Deep Learning For Coders

Random forests and gradient boosting	Data augmentation
Affine functions and nonlinearities	L1 and L2 regularization
Parameters and activations	Image classification
Transfer learning	Loss functions
Stochastic gradient descent (SGD)	Entity and word embeddings

St Mary's College, Blackburn | 2004 – 2007
A LEVELS– Mathematics (B) Physics (B) Music Technology (B) Electronics A/S (A)

OTHER

Google ML Crash Course | 2021
Used Tensorflow framework.

Extensive self supported study | 2019 – present
Python, PyTorch, Web dev and more.