







Portfolio

Muse, your personal museum guide

- Built a recommendation system to make museums more user-friendly and suggest a new advertising strategy.
- Implemented a deep learning model using transfer learning on an existing CNN to detect image similarity with 78% accuracy.
- Deployed a web app through Flask hosted on Heroku.

— link

ToxPost, how toxic is an online comment?

- repository

- Applied various NLP techniques (Tf-Idf, GloVe) on a corpus of Youtube comments to create a bespoke word embedding.
- Trained an LSTM that describes toxicity with 80% accuracy.

EXPERIENCE

Fellow at Insight, Toronto, ON, CAN.

2019-present

Data Science stream

• Quickly acquired the technical skills necessary to build end-to-end ML pipelines, from data exploration/analysis to model design/optimization and the development of a polished front-end.

Postdoctoral Fellow at University of Toronto, ON, CAN.

2015-2018

Department of Computer and Mathematical Sciences

- Applied techniques from category theory in new ways and gained a deeper understanding of intricate geometric patterns.
- Modernized both the teaching methods and curriculum as head coordinator for 9 math courses (with an enrollment of up to 300^+ and support team of 10^+), yielding one of the highest approval ratings in the department.

Programme Associate at UC Berkeley, CA, US.

2013

Mathematical Sciences Research Institute

• Collaboration with international experts on current problems in the field of algebraic geometry resulted in 2 publications in tier one articles.

Doctoral Candidate at University of Hasselt, BE.

2009-2015

Faculty of Pure and Applied Mathematics

- Thesis in noncommutative geometry led to new developments in string theory.
- Invited as plenary speaker to institutes around the world including AIM (Stanford, U.S.), IHP (Paris, Fr.), RIMS (Kyoto, JAP.), MFO (Oberwolfach, GER.), and Maxwell (Edinburgh, U.K.).

SKILLS

- classification/regression/clustering, NLP, (Conv./Rec.)NNs, dimension reduction.
- Python, TensorFlow/Keras, Scikit-Learn, Pandas, html/css/js/php.
- Stochastic methods, (Bayesian) statistics, linear algebra, calculus, graph theory.
- English (fluent), French (native), Dutch (native).

EDUCATION

• **Ph.D.** in Mathematics, University of Hasselt, BE.

2015

• M.Sc. in Pure Mathematics, University of Antwerp, BE.

2009

• B.Sc. in Mathematics, University of Antwerp, BE.

2007

• Certification in Machine Learning Engineering, Udacity.

2017

