David Beauchemin

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• See GitHub

in See profile

Education

2020 -Doctor of Philosophy, Computer Science | Machine Learning | Natural Language

Processing

Laval University UNIVERSITÉ LAVAL

GRAIL - Group for Research in Artificial Intelligence of Laval University

2018 - 2020Master's degree in Computer Science | Machine Learning | Natural Language Processing UNIVERSITÉ LAVAL Laval University

GRAIL - Group for Research in Artificial Intelligence of Laval University

Thesis subject: Détection de doublons parmi des informations non structurées provenant de sources

de données externes

2015 - 2018Bachelor's degree in actuarial sciences

UNIVERSITÉ LAVAL Laval University

Experiences

2019 -

Professional

Applied AI Researcher in Natural Language Processing

Baseline В

Applied AI research for clients & specialized formation in AI

2019 -Developer Poutyne Poutyne

Feature development

2019 -Founder, Researcher, and Interviewer

OpenLayer podcast

AI content creation

2018 -Event planning Meetup Machine Learning Quebec

Co-organization of events in Quebec city

2019 - 2020AI scientist Vooban

Technical advisor in artificial intelligence

Teaching

2016 -Teaching Assistant UNIVERSITÉ LAVAL

Laval University, École d'actuariat Introduction à l'actuariat I, Gestion du risque financier I, Analyse et traitement collectif du risque,

Informatique pour actuaire, Méthodes numériques en actuariat, Mathématiques actuarielles IARD II,

Modèles linéaires en actuariat, Programmation avec R pour l'analyse de données

2019 - 2020Teaching Assistant Laval University, BDRC - Big Data Research Center UNIVERSITÉ LAVAL

Winter school in machine learning

Research

2017

Multivariate Compound Distributions

2020 -Research Assistant UNIVERSITÉ LAVAL Laval University, IID - Institute Intelligence and Data Female Workers Facing the Challenge of Digital Transformation: A Case Study in the Insurance Christian Gagné, Future skills centre 2020 Research Assistant Laval University, École d'actuariat UNIVERSITÉ LAVAL Plateforme libre de validation et d'étalonnage de prévisions financières et actuarielles Vincent Goulet, Laval University actuarial science research chair 2019 Research Assistant UNIVERSITÉ LAVAL Laval University, GRAIL - Group for Research in Artificial Intelligence of Laval University Information gathering using external unstructured data sources Luc Lamontagne, NSERC/Intact Financial Corporation Industrial Research Chair in Machine Learning for Insurance 2019 Research Assistant UNIVERSITÉ LAVAL Laval University, GRAIL - Group for Research in Artificial Intelligence of Laval University Learning taxonomy of professional skills Luc Lamontagne, ENGAGE project 2018 Research Assistant UNIVERSITÉ LAVAL Laval University, École d'actuariat Intergenerational equity: metrics for conditional indexation in pension plans Louis Adam, Laval University actuarial science research chair 2018 Research Assistant Laval University, GRAIL - Group for Research in Artificial Intelligence of Laval University UNIVERSITÉ LAVAL Weighted bootstrapping method for word relation extraction Luc Lamontagne **Publications** Article David Beauchemin, Nicolas Garneau, Eve Gaumond, Pierre-Luc Déziel, Richard Khoury and Luc 2020 Lamontagne. Generating Intelligible Plumitifs Summaries: Use Case Application with Ethical Considerations. The 13th International Conference on Natural Language Generation. Marouane Yassine, David Beauchemin, François Laviolette and Luc Lamontagne. 2020 Subword Embeddings for Multinational Address Parsing. IEEE CiSt'20, MNLP. 2019 Nicolas Garneau, Mathieu Godbout, David Beauchemin, Audrey Durand and Luc Lamontagne. A Robust Self-Learning Method for Fully Unsupervised Cross-Lingual Mappings of Word Embeddings: Making the Method Robustly Reproducible as Well. REPORLANG@LREC2020. Other publication David Beauchemin Détection de doublons parmi des informations non structurées provenant de sources de données différentes, Master Thesis David Beauchemin and Vincent Goulet Typesetting actuarial symbols easily and consistently with $actuarial symbol\ and\ actuarial angle$ **Packages** 2020 Marouane Yassine et David Beauchemin Deepparse: A state-of-the-art deep learning multinational addresses parser David Beauchemin Notif: The notification package for every python project 2019

Simon-Pierre Gadoury and David Beauchemin nCopula: Hierarchical Archimedean Copulas Through

Vincent Goulet and David Beauchemin actuarialsymbol - Actuarial notation with LATEX

Communications

Workshops

2019 Les tests automatisés en R R à Québec 2019 Extraction d'information à partir du Web

Actulab

2019 Atelier pratique en git

Meetup Machine Learning Quebec

2017 Formation d'introduction à R

R à Québec

R & Markdown 2017

École d'actuariat

Presentations

2020 - 2021La reproductibilité en apprentissage automatique Webinaires de l'IID & bootcamp de l'IID

Laval University, Canada

2020 Detection of Duplicates Among Non-structured Data From Different Data Sources

Séminaires IID

Université Laval, Canada

2020 Intelligibility of digital court records: the criminal docket experience

Cyberjustice laboratory

2020 Détection de doublons parmi des informations non structurées provenant de sources de

données externes

Intact scientific workshop Laval University, Canada

2019 Bonnes pratiques & git

IFT-6010

Laval University, Canada

2019 Assurance Qualité, calcul scientifique & R

> R à Québec & CLESSN Laval University, Canada

Information gathering using external unstructured data sources 2019

Intact scientific workshop Laval University, Canada

Classification de doublons de risques commerciaux 2019

> Intact scientific workshop Laval University, Canada

2019 Introduction à Scikit-learn

Summer school of the Group for Research in Artificial Intelligence of Laval University interns

Laval University, Canada

2018 Système de gestion des bénévoles Agapè

GLO-7035

Laval University, Canada

2017 Où sont les clients que nous ciblons?

Actulab

Laval University, Canada

Blog Article

2020 Training a Recurrent Neural Network (RNN) Using PyTorch

.Layer

Funding and Scholarships

2020 –	Research Grant Forage de données d'assurance : techniques, éthiques, et sécurité
2020	Entrance Scholarship Doctoral Entrance Scholarship
2019 – 2020	Research Grant NSERC/Intact Financial Corporation Industrial Research Chair in Machine Learning for Insurance Software engineering development of Poutyne deep learning framework
2019	Research Grant NSERC/Intact Financial Corporation Industrial Research Chair in Machine Learning for Insurance Information gathering using external data sources
2018	Gaston Paradis Excellence Award Laval University Social involvement
2018	Yves-Roy Award Laval University

Award and Distinctions

Best software engineering term project

2016 - 2018	Gala for the student excellence
	AESGUL (Association des Étudiants en Sciences et Génie de l'Université Laval)
	Social involvement

Community Involvement

Committee	
2020 –	R à Québec Organization Committee President of organization of the workshop sessions Laval University, Canada
2020 -	Editorial Blog Committee President .Layer
2020 –	Committee Data Universal Tool Development President .Layer
2020	Co-design AI Prospective Workshop Participant IOSIAIDT - International Observatory on the Societal Impacts of Artificial Intelligence and Digital Technology
2019 - 2020	Committee for the improvement of teaching evaluations Participant Faculty of Science and Engineering, Laval University
2018	Organisational committee for Machine Learning in Insurance Week Participant Meetup Machine Learning Quebec

Jury

2018 - 2020 | Member of the Jury

My assignment in 180 seconds École d'actuariat, Laval University

2019 - 2020 Member of the Jury

Presentation of the assignment

Department of Computer Science and Software Engineering, Laval University

Cooperative

2020 -

Baseline



Chairman of the Board of Directors of Baseline, a worker cooperative in artificial intelligence Quebec, Canada

Non-Profit Associations

2021 -

.Laver



President

Quebec, Canada

2019 - 2021

.Layer



Vice-president of business development

Quebec, Canada

2016 - 2018

AÉACT (Association des Étudiants en Actuariat de l'Université Laval)

Laval University, Canada

Podcast

2020 -

IA & café

Invited co-host of the podcast $IA \ \mathcal{E} \ caf \acute{e}$