

Lyndon Rey

Machine Learning & Software Development

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About me

Software developer and Machine Learning researcher based out of Calgary, AB. Using traditional software development principles in combination with cutting-edge machine learning techniques to make advancements in Data Science/AI. With deep experience in computer science and the liberal arts, I believe that machine learning and the humanities are inextricably linked; thus, I strive to apply both in order to increase industry effectiveness.

Languages

English — Native
French — Fluent; Reading & Writing

Skills

Programming:

Python	Expert
BASH	Advanced

Software/OS:

Scikit-learn	Advanced
TensorFlow	Advanced
NumPy	Advanced
Spark	Intermediate
Pandas	Advanced
Git	Intermediate
Docker	Intermediate
Linux	Advanced

Concepts:

Image Processing	Advanced
Computer Vision	Advanced
Machine Learning	Advanced
Pattern Recognition	Intermediate
Multiprocessing	Intermediate

Interests

Data Science; Big Data Analytics; Machine Learning; Natural Language Processing

Education

- 2018-2020 M.A. Linguistics University of Calgary
Thesis: Modeling the Perception of Deceptive Speech: a Neural Network Approach
- 2013-2017 B.A. Honours in Linguistics University of Western Ontario
Coursework in discrete mathematics, algorithm design and analysis, artificial intelligence, and linear algebra

Publications

- 2020 Documentation automatique de [i] en faetar : Une méthodologie pour la découverte de l'espace vocalique à l'aide de réseaux neuronaux artificiels. In Géolinguistique, with Dr. N. Nagy.
- 2016 The Language Identification Problem: Formant Analysis and Cross-Linguistic Uniqueness. In Western Papers in Linguistics / Cahiers linguistiques de Western: 3(5).

Awards

- 2020 Peter C. Craigie Memorial Scholarship
- 2019 Alberta Graduate Excellence Scholarship
- 2018 Queen Elizabeth II Scholarship
- 2017 Western University Gold Medal (highest GPA in program)
- 2017 Canadian Interuniversity Sport Academic All-Canadian

Experience

- 2020 Data Scientist SportsBiz Group Inc.
Situated NLP technology within nascent product. Implemented data pipeline using AWS Glue, Kinesis, and Spark, and developed machine learning model to discover relationships between sports assets, within an Agile environment. Software developed in Python, using TensorFlow and SpaCy; version control with AWS CodeCommit and Git.
- 2020 Data Science Intern RS Energy Group & Enverus
Designed, built, and validated software forecasting well permit-to-production time with an accuracy within 6 weeks. Created a TensorFlow-based computer vision model accurately identifying well pads from low-resolution satellite imagery. Used Pandas along with multiprocessing strategies to greatly reduce algorithm computing time. Software written in Python, using Tensorflow, Pandas, NumPy, and Scikit-learn.
- 2019 Machine Learning Consultant GroupHop Travel Inc.
Designed and developed Flask machine learning API using Tensorflow. Created a method for quantifying and predicting customer booking patterns.
- 2018 Speech Science Intern Nuance Communications Inc.
Researched, designed, and developed unsupervised learning software using Scikit-learn (with Python). Improved performance of IVR systems for multiple multinational contracts.
- 2016 Information Systems and Services Co-op Apotex Pharmachem Inc.
Designed and developed a task management system within the C#/ASP.NET framework.