

Spreevel is hiring ML co-op students!

Co-op Positions Available with Spreevel

We are an R&D team pushing the limits of question-answering technologies, responsible for a production service powering intelligent chatbots in various contexts such as medicine and tourism.

Are you passionate about the possibility of applying your Deep Learning and NLP skills to extract meaning from texts and massive unstructured data?

You'll be responsible for researching, developing, and improving algorithms that help computers learn from the text. Our goal is to reduce the time and expense of performing traditionally manual tasks, growing efficiency, and reducing customer service costs using NLP applications and techniques. You will be leveraging and improving upon the latest deep learning models to understand queries, rank documents, and find useful answers to users' questions. You'll perform distributed data processing pipelines - Utilizing PyTorch for training deep learning models. You'll be an expert in evaluating NLP model performance and continuously strive for quality improvements.

You'll be developing and implementing novel methods for data extraction from free text data, including named entity recognition, relation extraction, part of speech tagging, methods for topic modelling, document clustering and text summarization, unsupervised identification of keywords and detection of word similarity: latent semantic indexing, brown clustering, word2vec, etc.

You'll be analyzing search ranking and relevance requirements, issues and opportunities - Understanding knowledgebase requirements, then translating them into modelling tasks and engineering tasks - Building machine-learned models for search relevance, ranking, query understanding, and questioning. You'll automate the evaluation of question-answering systems, verifying and validating the extracted information and forming the knowledgebase for the chatbot system.

Key Qualifications

- Experience in machine learning, deep learning, information retrieval, natural language processing or data mining
- Mastery of one of the following languages: Python, Go, Java, C++
- Excellent interpersonal skills; ability to work independently as well as in a team
- Excellent knowledge and good practical skills in major machine learning algorithms
- Excellent data analytical skills and text processing in PyTorch, Keras and/or TensorFlow
- Experience with large scale search and machine learning systems is highly desired
- Experience with SpaCy, Stanza, and other knowledge extraction tools is a plus
- Experience in embedding models, Doc2Vec, node2vec, Word2Vec etc.
- Experience with knowledgebase developments and their coherence management, ontology learning
- Strong background in algorithms and data structures
- Experience with chatbot Python libraries, DialogFlow, Rasa, Siri and other chatbot frameworks is a plus
- Experience with Graph databases is a plus

- Any background research in Chatbot-Recommender Systems and Question-Answering models and architectures is an asset
- REST API, Micro-service and software engineering conventions and standards is considered an asset
- Automatic software testing and evaluation experience would be an asset

Contact:

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Founder Spreevel

Member Board of Directors-Travel & Tourism Research Association Canada Chapter (2018-2021)

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