Leveraging transfer learning in NLP

DESCRIPTION

Our EY Data Science team is looking for creative postgraduate students (Master and PhD students in computer science, engineering or related fields) who are passionate about emerging topics of artificial intelligence and machine learning to join us for a 3-6 month internship.

As an intern, you'll partner with other data scientists and machine learning engineers to build one or several Machine Learning assets to serve real-world applications in the industry.

Natural Language Processing is a powerful tool, but in real-world applications, we often come across tasks which suffer from data deficit and poor model generalization. We believe that Transfer Learning can help us solve the later challenges by allowing us to take a pre-trained model for a task and use it for others.

The goal of this internship is to explore the different types of Transfer Learning techniques and leverage them to transfer knowledge and customize a given pre-trained NLP language model (e.g. BERT) to a different domain-specific task (e.g., customers e-mails dispatching) or language.

SUPERVISION:

- Works independently and collaborates effectively as part of a team of Data Scientists, Machine Learning Engineers and Academic Partners

QUALIFICATIONS

- On-track for a master degree in Computer Science, Engineering, Statistics or Mathematics
- Strong technical knowledge in algorithms and data structures
- Good understanding and strong personal interest in machine learning
- Strong technical knowledge in programming/scripting languages; experience in Python is a plus
- Strong software development skills
- Enthusiasm for applying machine learning to real-world problems
- Ability to present your ideas clearly
- Strong personal interest in learning, researching, and creating new technologies with high business impact