Position Information

Position Rank: Part-Time Instructor & Course Developer

Discipline/Field: Machine Learning

Home School: School of Continuing Studies

Home Department: Continuing Professional Education

Position Start Date: ASAP

York University, founded in 1959, is now Canada's third largest university. The School of Continuing Studies was established in 2015 and is quickly becoming a leader in adult learning, serving working professionals and diverse communities while offering an unparalled academic experience.

ABOUT THE PROGRAM

The Certificate in Machine Learning will have its first intake cohort in September 2018 and is the first and only certificate in Canada dedicated to machine learning. The program has been developed in response to calls from various sectors for a closing of the skills gap with practitioners who have the necessary technical, business and ethical acumen to thrive in various business settings. The Certificate in Machine Learning has been designed to be a 4-course blended delivery program that conceptually moves through the stages of a machine learning project.

POSITION DESCRIPTION

The Part-Time Instructor & Course Developer leads development and delivery of their course under direction of the Program Manager and Academic Coordinator, and in consultation with the Program Advisory Council, instructor peers and the instructional design team. The incumbent will be guided in their curriculum development and subsequent delivery by their many years of experience in machine learning.

INSTRUCTOR & COURSE DEVELOPER DUTIES

- Develop and deliver course curriculum for the blended learning modality (21 hours face-to-face, 15 hours online)
- Define, evaluate and validate learning outcomes, and correspondingly design strategies and tactics for assessing student learning
- Offer innovative approaches to quality teaching and learning that improve student outcomes and embed technologies into the classroom experience

- Provide formative assessment of student learning through a variety of methods and subsequently providing counsel to students where required
- Support learning through formative assessment and summative evaluation
- Participate in academic/curriculum and other components of annual and comprehensive program reviews
- Periodically asked to weigh in on other program matters, including student recruitment and selection, scheduling, room assignments, technology, etc.

GENERAL QUALIFICATIONS

- Minimum master's level education completed in computer science, engineering, math, statistics or physics
- Minimum 7 years of experience as a practitioner of machine learning solutions from beginning to end in a business environment (i.e. business intelligence, project planning, data pipelining, cleansing, assessment, model selection, training, testing, refitting, data visualization, business presentation)
- Minimum 2 years of experience teaching or training adults in an educational or corporate setting
- 2 years of experience managing a data science team in a business environment or being employed on the business side (e.g., business intelligence) is preferred
- Experience incorporating adult learning principles and constructivist approaches to teaching and learning in an outcomes- or competency-based approach is preferred
- Extensive experience with supervised, unsupervised and reinformcement learning models and algorithms: not just "taking off the shelf" but developing and improving
- Extensive experience in dealing with unclean and unstructured data and subsequently building data pipelines to improve data collection, as well as training and testing models, and presenting to other stakeholders
- Experience with Apache Spark, Hadoop, scikit-learn, Tableau, etc.
- Familiarity with online course delivery and principles of online learning is preferred
- Demonstrated ability working in a team environment with excellent interpersonal and organizational skills

SUBMITTING YOUR APPLICATION

Applications must consist of a cover letter and curriculum vitae. Candidates may choose to include samples of their work.

Preferred candidates may be asked for qualification verification (e.g., credentials). Please ensure your application specifically states which position you are applying for and the corresponding course or courses.

Applications are to be addressed and submitted by no later than **Sunday, January 21, 2018** to:

<div align="center">

Sean Woodhead

Program Manager, Continuing Professional Education

School of Continuing Studies

woodhead@yorku.ca

</div>