**Job Title:** Graduate Professional Studies, Adjunct Faculty  
**Course:** Machine Learning  
**Division:** Rabb School, Graduate Professional Studies (GPS)  
**Location:** Online

**About the position and course:**
Brandeis University’s [Graduate Professional Studies](#) (GPS) is looking for an industry leader to develop and teach in our new Robotic Software Engineering Master’s Program. Brandeis University is consistently ranked among the nation’s top universities, and our online courses are developed using best practices in online learning.

**RBOT 240: Machine Learning** is a core course that will focus on the theory and algorithms in Machine Learning. Regression, Neural networks, Deep learning, Classification, Random forests, Support vector machines, PCA, clustering, EM and more.

At the end of the course, students will be able to:
- Design and implement machine learning solutions using SOA methods
- Implement and test solutions using libraries such as Caffe, scikit-learn or OpenCV
- Apply Deep learning using Caffe/Theano
- Use Jupyter notebooks using rich visualization techniques to drive and journal design models

**Qualified candidates will have Subject Matter Qualifications in the following areas:**
- **Required:**
  - Current active employment in the Robotics Software Engineering field, or related industry
  - Masters degree
  - Minimum of 5 - 10 years with Machine learning experience and familiarity with majority of topics to be taught
  - Solid mathematical background (probability, statistics, calculus) required for perception
  - Software engineering background required
  - Understanding of ROS and its components (and tools such as rviz, gazebo, etc) desired but not required
- **Preferred:**
  - Experience applying machine learning to robotic problems such as grasping or perception (for example)
  - Teaching experience; online teaching or learning experience

**General responsibilities include:**
- For new courses requiring development:
  - Design a syllabus following program chair guidance and the syllabus template
  - Create content that aligns with course outcomes and offers the author’s experiences and perspectives on key points
- For all courses - develop and deliver the course according to our teaching standards, which include actively facilitating online discussions, providing relevant and timely feedback on student work, reporting grades, and discussing student issues with staff
- Create or refine and facilitate the course site in the Moodle learning management system
General skill requirements include:
- Strong interpersonal skills when relating to students
- The ability to communicate effectively in writing, including conveying complex information and promoting in-depth engagement on course topics
- The ability to devote adequate time to courses, including responding to students and providing meaningful feedback in a timely manner

About the **Masters in Robotic Software Engineering** Program:
From self-driving cars to farming to advances in healthcare and caretaking, nearly every global industry will be impacted by autonomous robots and the software that drives them. The Masters in Robotic Software Engineering will allow students to develop an advanced understanding of robotic engineering concepts and learn from leading software engineers and roboticists.

All GPS Masters courses are 10-weeks long and taught asynchronously in the online learning environment with no set days or times for interaction.

About GPS Faculty:
GPS Faculty instructors are active practitioners in the industries that align with our programs and have the professional expertise to bring to course discussions and threads. Instructors are part time and work fully online, with no requirement to appear on campus. Our faculty have earned at least a master's degree with many holding terminal academic degrees and industry-specific credentials. Previous experience teaching online is not required; GPS offers a comprehensive training program for qualified applicants.

How to apply:
GPS welcomes applications for its adjunct faculty pool on an ongoing basis. The application process consists of the online application and, if subject matter qualifications are met, a series of interviews at the discretion of the Program Chair and Director of Program Development. Complete your [application online](#).