Machine Learning/AI related courses at UGA

This list is not exhaustive - if you notice that a particular course is missing, please let me know and I’ll add it.

For all CSCI courses, see the bulletin: <http://bulletin.uga.edu/CoursesHome.aspx?Prefix=csci>

CSCI 3360 - Data Science I

* A rigorous overview of methods for text mining, image processing, and scientific computing. Core concepts in supervised and unsupervised analytics, dimensionality reduction, and data visualization will be explored in depth.
* Offered fall semester every year.

CSCI 4330/6330 - AI and the Web

* The application of artificial intelligence methodologies and algorithms to problems involving the world wide web. Introduction to problem-solving, knowledge representation, learning, and reasoning techniques and exploration of how they are applied to enable information provisioning, social networking, and service provisioning on the web.
* Not offered on a regular basis.

CSCI 4360/6360 - Data Science II

* An introduction to advanced analytics techniques in data science, including random forests, semi-supervised learning, spectral analytics, randomized algorithms, and just-in-time compilers. Distributed and out-of-core processing.
* Offered every year.

CSCI 4380/6380 - Data Mining

* A broad introduction to data mining methods and an exploration of research problems in data mining and its applications in complex real-world domains. Approaches include association and classification rule learning, tree learning, neural network and Bayesian methods, support vector machines, clustering, and ensemble learning.
* Not offered on a regular basis

CSCI(ARTI) 4540/6540 - Symbolic Programming

* Programming in LISP and PROLOG, with emphasis on artificial intelligence techniques. Other languages used for artificial intelligence work will be presented more briefly.
* Not offered on a regular basis.

CSCI(PHIL) 4550/6550 - Artificial Intelligence

* The artificial intelligence approach to modeling cognitive processes. Topics include an introduction to heuristic methods, problem representation and search methods, classic AI techniques, and a review of the controversial issues of the AI paradigm of cognition as computation.
* Not offered on a regular basis.

CSCI 4560/6560 - Evolutionary Computation and Its Applications

* An in-depth introduction to evolutionary computation methods and an exploration of research problems in evolutionary computation and its applications which may lead to work on a project or a dissertation.
* Not offered on a regular basis.