CS 795/895 Practical Machine Learning and Artificial Intelligence
Spring 2020

Instructor

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Catalog Description:
This course will introduce the AI and machine learning fundamentals as well as their applications in practice. Each lecture includes an introductory presentation and followed by demos. The focus is on building deep conceptual understanding, gaining practical experience, and covering common mistakes and edge cases. The AI frameworks used in these lectures are Scikit-learn, TensorFlow, Keras, Gensim, and others.

Credits: 3(3-0)

Prerequisites: Graduate Standing

Textbook:
Course Slides and Papers

Class Schedule:
Tue: 9:00-11:45 Dragas 1102

Grade Evaluation:
All work will be graded on a numerical scale. The grading will be based on the implementations of two practical machine learning projects.
100% Two projects
Total 100%.

I will follow the rules of the Undergraduate Bulletin for grade assignment.
Final letter grades will be based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score Range</th>
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<tbody>
<tr>
<td>A</td>
<td>&gt;= 90</td>
</tr>
<tr>
<td>A-</td>
<td>&gt;= 87</td>
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<tr>
<td>B+</td>
<td>&gt;= 84</td>
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<tr>
<td>B</td>
<td>&gt;= 80</td>
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<tr>
<td>B-</td>
<td>&gt;= 77</td>
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<tr>
<td>C+</td>
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<tr>
<td>C</td>
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<tr>
<td>C-</td>
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<tr>
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<tr>
<td>D</td>
<td>&gt;= 60</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60</td>
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</tbody>
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Attendance:
Attendance is highly recommended. It is your responsibility to obtain any information given out in class. The instructor does not give out class notes. Some material presented in the lecture is not covered by the text. Students with special needs (e.g. hearing or vision difficulties) should inform the instructor at the beginning of the semester.
Honor Code
Please refer to the statement on academic integrity given below.

By attending Old Dominion University you have accepted the responsibility to abide by the honor code. If you are uncertain about how the honor code applies to any course activity, you should request clarification from the instructor. The honor code is as follows:

“I pledge to support the honor system of Old Dominion University. I will refrain from any form of academic dishonesty or deception, such as cheating or plagiarism. I am aware that as a member of the academic community, it is my responsibility to turn in all suspected violators of the honor system. I will report to Honor Council hearings if summoned.”

In particular, submitting anything that is not your own work without proper attribution (giving credit to the original author) is plagiarism and is considered to be an honor code violation. It is not acceptable to copy source code or written work from any other source (including other students), unless explicitly allowed in the assignment statement. In cases where using resources such as the Internet is allowed, proper attribution must be given.

Any evidence of an honor code violation (cheating) will result in a 0 grade for the assignment/exam, and the incident will be submitted to the Department of Computer Science for further review. Evidence of cheating may include a student being unable to satisfactorily answer questions asked by the instructor about a submitted solution. Cheating includes not only receiving unauthorized assistance, but also giving unauthorized assistance.

Students may still provide legitimate assistance to one another. You are encouraged to form study groups to discuss course topics. Students should avoid discussions of solutions to ongoing assignments and should not, under any circumstances, show or share code solutions for an ongoing assignment.

Please see the ODU Honor Council’s webpage for other concrete examples of what constitutes cheating, plagiarism, and unauthorized collaboration. All students are responsible for knowing the rules. If you are unclear about whether a certain activity is allowed or not, please contact the instructor.