Learning Outcomes
This course will explore approaches to extract insights from large-scale datasets. The course will cover the complete analytical funnel from data extraction and cleaning to data analysis and insights interpretation and visualization. The data analysis component will focus on techniques in both supervised and unsupervised learning to extract information from datasets. Topics will include clustering, classification, and regression techniques. Through homework assignments, a project, exams and in-class activities, students will practice working with these techniques and tools to extract relevant information from structured and unstructured data.

Extended Course Description
This course explores the application of data science techniques to unstructured, real-world datasets including social media and open data sources. The course will focus on techniques and approaches that allow the extraction of information relevant for experts and non-experts in a wide range of areas including smart cities, transportation or public safety.

After successfully completing this course you will be able to:

- Collect and clean large-scale datasets
- Articulate the math behind supervised and unsupervised techniques
- Execute supervised and unsupervised machine learning algorithms

Jennifer Proctor
jeproc@terpmail.umd.edu

Class Meets
Monday, Wednesday & Friday
10:00am – 10:50am
MCB #1207

Office Hours
HBK #4105J
Mon & Fri
Noon-1:00pm
and by appointment

Prerequisites
INST 314 - Statistics for Information Science

Course Communication
I will use ELMS announcements for time-sensitive communication.

To reach me, email is best. Please put “[INST 414] at the beginning of the subject line.

I can NOT guarantee prompt answers to questions sent on nights or weekends. If you have not received a reply within 2 business days, please message...
Data Science Techniques

- Select and evaluate various types of machine learning techniques
- Explain the results coming out of the models
- Critically evaluate the accuracy of different algorithms and the appropriateness of a given approach

**Required Resources**

Course website: [elms.umd.edu](http://elms.umd.edu)

The Data Science Handbook
Cady, Field
Available on Amazon

You need to bring a laptop to each class. If you do not have a laptop you can bring, contact the instructor before the first week of class ends. Over the course of the semester, you will need to install free software including Weka, Python, SublimeText, OpenRefine, and Tableau. If you encounter problems with these tools, some of them will be available over the ischool Virtual Computing Lab as an alternative option you may use.

**Campus Policies**

It is our shared responsibility to know and abide by the University of Maryland’s policies that relate to all courses, which include topics like:

- Academic integrity
- Student and instructor conduct
- Accessibility and accommodations
- Attendance and excused absences
- Grades and appeals
- Copyright and intellectual property

Please visit [go.umd.edu/ug-policy](http://go.umd.edu/ug-policy) for the Office of Undergraduate Studies’ full list of campus-wide policies and follow up with me if you have questions.

**Accessibility and Learning Support**

Students with disabilities should inform me of their needs at the beginning of the semester. Please also contact the Accessibility and Disability Support Office (http://www.counseling.umd.edu/ADS/). ADS will make arrangements with the student and me to determine and implement appropriate academic accommodations. Inclusion is one of the
iSchool's core values, and we have attempted to make all materials and assignments accessible to people with varying abilities. However, if there is something else I can do to make the class more accessible please schedule a time to come talk to me. This will benefit not only yourself but also future students!

**Writing and English Help**

Even though all UMD students are either native English speakers or have passed the TOEFL, it is normal to struggle to grasp the tone and style expected in advanced professional writing and speaking. The best resource to help with this issue on campus at this time is the Undergraduate Writing Center which offers help with writing. Appointments can be made online at www.english.umd.edu/academics/writingcenter.

**Student Health and Time Management**

For your own health and sanity, please *stick to the hours of daylight* for as much of your work for this class as possible. If you have to turn in an assignment late, I would rather you go to sleep and submit it at lunch time the next day than stay up late and get it in at 3:30 am. Your grade is the same either way and YOU DESERVE TO SLEEP.

Furthermore, **DO NOT COME TO CLASS IF YOU ARE ILL. This is VITAL because your instructor is unusually susceptible to illness.** Additionally, *you will recover much faster if you get your rest* and you will avoid exposing your classmates and teacher to infection. As this class meets three times a week, you may miss two consecutive classes with a self-signed sick notice emailed to me within 48 hours of missing class. For further consecutive classes, a doctor’s note will be required. The only exceptions are the *midterm and final presentation days* which require a doctor’s note regardless of duration of illness. There is no limit to the total number of absences that may be excused via official doctor’s notes, allowing you to make up all missed work without late penalties.

Additionally, the entire course is published on Canvas already so that you can plan ahead and manage your time. We may need to adjust the schedule (postponing deadlines for snow days, for example) and if the majority of the class is struggling with a particular issue, I may assign an additional assignment on it, but this will be pretty rare. Please take the time to look over the course calendar. You may even want to use project management software or a digital calendar so you can set yourself reminders to start each of these assignments and reminders to submit them.
Course-Specific Policies

For this course, some of your assignments will be collected via Turnitin on our course ELMS page. I have chosen to use this tool because it can help you improve your scholarly writing and help me verify the integrity of student work. For information about Turnitin, how it works, and the feedback reports you may have access to, visit Turnitin Originality Checker for Student.

Get Some Help!

Taking personal responsibility for your own learning means acknowledging when your performance does not match your goals and doing something about it. I hope you will come talk to me so that I can help you find the right approach to success in this course, and I encourage you to visit tutoring.umd.edu to learn more about the wide range of campus resources available to you. In particular, everyone can use some help sharpen their communication skills (and improving their grade) by visiting ter.ps/writing and schedule an appointment with the campus Writing Center. Finally, if you just need someone to talk to, visit counseling.umd.edu.

Everything is free because you have already paid for it, and everyone needs help… all you have to do is ask for it.

Names/Pronouns and Self Identifications

The University of Maryland recognizes the importance of a diverse student body, and we are committed to fostering equitable classroom environments. I invite you, if you wish, to tell us how you want to be referred to both in terms of your name and your pronouns (he/him, she/her, they/them, etc.). The pronouns someone indicates are not necessarily indicative of their gender identity. Visit trans.umd.edu to learn more.

Additionally, how you identify in terms of your gender, race, class, sexuality, religion, and dis/ability, among all aspects of your identity, is your choice whether to disclose (e.g., should it come up in classroom conversation about our experiences and perspectives) and should be self-identified, not presumed or imposed. I will do my best to address and refer to all students accordingly, and I ask you to do the same for all of your fellow Terps.
Grades

Grades are not given, but earned. Your grade is determined by your performance on the learning assessments in the course and is assigned individually (not curved). If earning a particular grade is important to you, please speak with me at the beginning of the semester so that I can offer some helpful suggestions for achieving your goal.

If you feel you are struggling at any point in the course, on an individual assignment or topic or with getting work completed in general, please TALK TO ME as soon as possible so we can come up with a plan to help you do better.

All scores as well as comments and feedback (except on Midterms and Final Presentations) will be posted on ELMS. If you would like to review any of your grades (including the exams), or have questions about how something was scored, please email me to schedule a time for us to meet in my office.

Unless you have reported an excused absence to me in advance of the due date, late work will be subject to a markdown of 10% per day late so please plan to have it submitted well before the scheduled deadline. I am happy to discuss any of your grades with you, and if I have made a mistake I will immediately correct it. Any formal grade disputes must be submitted in writing and within one week of receiving the grade.

<table>
<thead>
<tr>
<th>Category</th>
<th>Assignment</th>
<th>Points</th>
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<tr>
<td>Quizzes</td>
<td>Syllabus Quiz</td>
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<td></td>
<td>“Race, Ethnicity and Criminal Justice” Reading Quiz</td>
<td>5</td>
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<tr>
<td></td>
<td>Problem Set #1</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Problem Set #2</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Problem Set #3</td>
<td>10</td>
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<tr>
<td>Critical Reading</td>
<td>“Information Needs for Software Development Analytics”</td>
<td>10</td>
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<tr>
<td>Assignments</td>
<td>&quot;The Midwest is Getting Drenched, And It’s Causing Big Problems&quot;</td>
<td>10</td>
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<tr>
<td></td>
<td>“The President on Twitter: A Characterization Study of @realDonaldTrump”</td>
<td>10</td>
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<tr>
<td>Exercises</td>
<td>WHO Cleaning Homework</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Weka Activity Predictive Classifier &amp; Evaluation</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Bayes Theorem Script</td>
<td>5</td>
</tr>
</tbody>
</table>
## Titanic Information Gain Problem
5

## Multilayer Perceptron Exercise in Weka
5

| Portfolio Projects | Titanic Information Gain Problem | 5
|-------------------|----------------------------------|-----
|                   | Multilayer Perceptron Exercise in Weka | 5
|                   | Criminal Profiling Article | 15
|                   | Regular Expressions Exercise | 5
|                   | Web Scraping with Python | 10
|                   | Recommender System in Python | 10
|                   | TBA | 10

| Final Group Project | Titanic Information Gain Problem | 5
|---------------------|----------------------------------|-----
|                     | Multilayer Perceptron Exercise in Weka | 5
|                     | Criminal Profiling Article | 15
|                     | Regular Expressions Exercise | 5
|                     | Web Scraping with Python | 10
|                     | Recommender System in Python | 10
|                     | TBA | 10

| Final Group Project | Titanic Information Gain Problem | 5
|---------------------|----------------------------------|-----
|                     | Multilayer Perceptron Exercise in Weka | 5
|                     | Criminal Profiling Article | 15
|                     | Regular Expressions Exercise | 5
|                     | Web Scraping with Python | 10
|                     | Recommender System in Python | 10
|                     | TBA | 10

## Final Group Project
Problem Statement
10
Data Collection, Formatting, and Cleaning
10
Model
10
Paper
10
Poster and Presentation
10
Peer Evaluation
25

## Exams
Midterm
80

**Total**
300

Final letter grades are assigned based on the percentage of total assessment points earned. To be fair to everyone I have to establish clear standards and apply them consistently, so please understand that being close to a cutoff is not the same as making the cut (89.99 ≠ 90.00). It would be unethical to make exceptions for some and not others.

### Final Grade Cutoffs

<table>
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<tr>
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<td>97-100*</td>
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<tr>
<td>A</td>
<td>93-96.99</td>
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<tr>
<td>A-</td>
<td>90-92.99</td>
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<tr>
<td>B+</td>
<td>87-89.99</td>
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<tr>
<td>B</td>
<td>83-86.99</td>
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<tr>
<td>B-</td>
<td>80-82.99</td>
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<tr>
<td>C+</td>
<td>77-79.99</td>
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<tr>
<td>C</td>
<td>73-76.99</td>
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<tr>
<td>C-</td>
<td>70-72.99</td>
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<tr>
<td>D-</td>
<td>60-62.99</td>
</tr>
<tr>
<td>F</td>
<td>&lt;60.0%</td>
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</table>

* Note: To receive an A+ you must have demonstrated significant contributions to the class in addition to achieving this numeric grade.

### Extra Credit

If you received a grade lower than an 80% on any assignment from the Portfolio Projects and Final Project Parts 1-3 ONLY, you may revise it based on feedback (and/or assistance from the instructor during office hours) and resubmit ONCE PER ASSIGNMENT provided it is submitted before the extra credit deadline listed on the syllabus. If the quality of the resubmitted work is
good, your grade on that assignment can be raised as high as 90%. If the quality is not good, it is possible to LOSE points by resubmitting. No additional, unlisted assignments will be offered for extra credit purposes.

### Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Activities</th>
<th>Readings (Due BEFORE Class)</th>
<th>Homework (Due AFTER class)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1/28</td>
<td>Syllabus, Introductions</td>
<td>Student Introductions</td>
<td>Syllabus Quiz</td>
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<tr>
<td></td>
<td>1/30</td>
<td>What is Data Science?</td>
<td>Skills search</td>
<td>DSH Intro and Chapter 1</td>
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<tr>
<td></td>
<td>2/1</td>
<td>The Data Science Process</td>
<td>Requirements Analysis</td>
<td>DSH Chapter 2</td>
<td>Install OpenRefine</td>
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<tr>
<td></td>
<td>2/6</td>
<td>Data Cleaning</td>
<td>Cleaning the US Homicide Data set</td>
<td>DSH Chapter 4</td>
<td>Reading Assignment Worksheet #1</td>
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<tr>
<td></td>
<td>2/8</td>
<td>Data Cleaning</td>
<td>Cleaning the US Homicide Data set</td>
<td>HW: Cleaning WHO Data</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2/11</td>
<td>Cognitive Bias, Critical Thinking</td>
<td>Group-share Cognitive Biases</td>
<td>Links in Bias Module on ELMS</td>
<td>Reading Quiz (Open Book)</td>
</tr>
<tr>
<td></td>
<td>2/13</td>
<td>Data Formats and Manipulation; Regular Expressions</td>
<td>Adding Structure to Unstructured Data; Regex101.com demo</td>
<td>DSH Chapters 4.6 &amp; 7</td>
<td>Install Tableau</td>
</tr>
<tr>
<td></td>
<td>2/15</td>
<td>Feature Engineering</td>
<td>Working with US Homicide Data set</td>
<td>Install Weka</td>
<td></td>
</tr>
<tr>
<td>Week</td>
<td>Date</td>
<td>Topic</td>
<td>Activities</td>
<td>Resources</td>
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<td>4</td>
<td>2/18</td>
<td>Data Visualization and Storytelling</td>
<td>Exploring examples/Tableau Demo</td>
<td>Links on ELMS module and DSH Chapter 5</td>
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<td>Reading Assignment Worksheet #2</td>
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<td>2/20</td>
<td>Data Visualization and Storytelling</td>
<td>Exploratory Data Analysis on US Homicide Data set</td>
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<td>Regex HW</td>
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<td>2/22</td>
<td>Machine Learning and Artificial Intelligence</td>
<td>Exploratory Data Analysis on US Homicide Data set; Weka Tutorial Video</td>
<td>DSH Chapter 6</td>
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<td>Problem Set #1</td>
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<tr>
<td>5</td>
<td>2/25</td>
<td>Machine Learning and Artificial Intelligence</td>
<td>Hands on Model Building with Weka</td>
<td>ELMS articles</td>
<td></td>
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<tr>
<td></td>
<td>2/27</td>
<td>Metrics, Overfitting</td>
<td>Weka accuracy video; Evaluating models</td>
<td>ELMS articles</td>
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<td></td>
<td>Install Python &amp; SublimeText</td>
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<tr>
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<td>3/1</td>
<td>Metrics, Overfitting</td>
<td>Evaluating models</td>
<td>Weka</td>
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<td>Predictor and Evaluation</td>
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<td>Data Collection</td>
<td>Web Scoping with Python</td>
<td>DSH Chapter 3.3</td>
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<td>3/6</td>
<td>Data Reuse and Data Management</td>
<td>Web Scoping with Python</td>
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<td>Criminal Profiling Article</td>
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<td>7</td>
<td>Probability Review and Bayes Theorem</td>
<td>Web Scoping Troubleshooting</td>
<td>DSH Chapters 18 &amp; 19 (Skim)</td>
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<tr>
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<td>3/11</td>
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<td>HW: Titanic Information Gain</td>
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<tr>
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<td>3/13</td>
<td>Bayes Theorem</td>
<td>Bayes Practice</td>
<td>“James May’s Man Lab” - Bayes with Beer Video (link on Canvas)</td>
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<td></td>
<td>Web Scoping with Python; Problem Set #2</td>
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<tr>
<td></td>
<td>3/15</td>
<td>Final Projects - Review of Classifiers</td>
<td>Final Project Group Sign-up</td>
<td>Bayes Theorem Script</td>
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</tbody>
</table>
# Data Science Techniques

## Features, Metrics, The Data Science Roadmap

### 3/17-3/24  SPRING BREAK

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Activity</th>
<th>Notes</th>
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<tbody>
<tr>
<td>8</td>
<td>3/25</td>
<td>Midterm Review</td>
<td>Questions, Practice Exam</td>
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<td></td>
<td>3/27</td>
<td>Midterm Review</td>
<td>Dots and Boxes Review Game</td>
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<td>3/29</td>
<td>Midterm Exam</td>
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<tr>
<td>9</td>
<td>4/1</td>
<td>No Class</td>
<td>Project Group Work (iConference)</td>
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<td></td>
<td>4/3</td>
<td>No Class</td>
<td>Project Group Work (iConference)</td>
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<td>4/5</td>
<td>TBA</td>
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<td>4/8</td>
<td>Recommender Systems</td>
<td>Coding a Recommender Algorithm in Python, Final Project: Problem Statement Due</td>
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<td>4/10</td>
<td>Recommender Systems</td>
<td>Coding a Recommender Algorithm in Python</td>
</tr>
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<td>4/12</td>
<td>Neural Networks and Deep Learning - Basics</td>
<td>Coding a Recommender (Continued), DSH Chapter 24, Multilayer Perceptron Exercise Due</td>
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<td>4/15</td>
<td>Neural Networks and Deep Learning</td>
<td>Tensorflow Playground, Recommender Algorithm DUE</td>
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<td>4/17</td>
<td>Neural Networks and Deep Learning - Training Challenges</td>
<td>A Look Inside An Image Identification Algorithm using Transfer Learning</td>
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<td>4/19</td>
<td>TBA</td>
<td>TBA, Final: Data Collection, Formatting, and Cleaning DUE</td>
</tr>
<tr>
<td>12</td>
<td>4/22</td>
<td>TBA</td>
<td>TBA</td>
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Instructions and readings:

- **Weekly Activities:**
  - **3/25:** Midterm Review
  - **3/27:** Midterm Review (Dots and Boxes Review Game)
  - **3/29:** Midterm Exam
  - **4/1:** No Class (iConference)
  - **4/3:** No Class (iConference)
  - **4/5:** TBA
  - **4/8:** Recommender Systems (Coding a Recommender Algorithm in Python, Final Project: Problem Statement Due)
  - **4/10:** Recommender Systems
  - **4/12:** Neural Networks and Deep Learning - Basics (Coding a Recommender (Continued), DSH Chapter 24, Multilayer Perceptron Exercise Due)
  - **4/15:** Neural Networks and Deep Learning (Tensorflow Playground, Recommender Algorithm DUE)
  - **4/17:** Neural Networks and Deep Learning - Training Challenges (A Look Inside An Image Identification Algorithm using Transfer Learning)
  - **4/19:** TBA
  - **4/22:** TBA

- **Readings:**
  - **DSH Chapter 24:** Multilayer Perceptron Exercise Due
  - **4/15:** Neural Networks and Deep Learning (Tensorflow Playground, Recommender Algorithm DUE)

---

**Important Dates:**

- **3/25**: Midterm Review Questions Practice Exam
- **3/27**: Midterm Review Dots and Boxes Review Game
- **3/29**: Midterm Exam
- **4/1**: No Class (iConference)
- **4/3**: No Class (iConference)
- **4/5**: TBA
- **4/8**: Recommender Systems (Coding a Recommender Algorithm in Python, Final Project: Problem Statement Due)
- **4/10**: Recommender Systems
- **4/12**: Neural Networks and Deep Learning - Basics (Coding a Recommender (Continued), DSH Chapter 24, Multilayer Perceptron Exercise Due)
- **4/15**: Neural Networks and Deep Learning (Tensorflow Playground, Recommender Algorithm DUE)
- **4/17**: Neural Networks and Deep Learning - Training Challenges (A Look Inside An Image Identification Algorithm using Transfer Learning)
- **4/19**: TBA
- **4/22**: TBA

---

**Additional Info:**

- **Final Project:**
  - **Problem Statement Due:**
  - **Data Collection, Formatting, and Cleaning DUE:**

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**Course Syllabus – INST 414 Section 0102 – Spring 2019**

**INST 414**

**Spring 2019**
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Notes</th>
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<tbody>
<tr>
<td>4/24</td>
<td>Text Analytics, NLP</td>
<td>Trump Tweets Analysis</td>
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<td>4/26</td>
<td>Text Analytics, Word Vectors</td>
<td>Trump Tweets Analysis (Continued)</td>
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<td>13</td>
<td>4/29 Network Analysis</td>
<td>Analyzing Social Media Networks</td>
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<td>Excerpts from “Analyzing the Social Web” (on ELMS)</td>
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<td>Analyzing Social Media Networks</td>
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<td>Final: Paper DUE</td>
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<td>Network Analysis</td>
<td>Analyzing Social Media Networks</td>
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<td>All extra credit due - No exceptions!</td>
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<td>5/6 Ethics Re-cap</td>
<td>Terrible Ideas in Data Science</td>
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<td>Articles Assigned on Canvas</td>
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<td>Problem Set #3</td>
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<tr>
<td>5/8</td>
<td>Presentations</td>
<td>Final: Posters &amp; Presentations - Day 1</td>
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<tr>
<td>5/10</td>
<td>Presentations</td>
<td>Final: Posters &amp; Presentations - Day 2</td>
</tr>
<tr>
<td>15</td>
<td>5/13 Presentations</td>
<td>Constructive Criticism Advice/ Peer Review Instruction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Final: Posters &amp; Presentations - Day 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Final Project Peer Evaluations DUE</td>
</tr>
</tbody>
</table>

*Note*: This is a tentative schedule, and subject to change as necessary – monitor the course ELMS page for current deadlines. In the unlikely event of a prolonged university closing, or an extended absence from the university, adjustments to the course schedule, deadlines, and assignments will be made based on the duration of the closing and the specific dates missed.