

Discussion Board

The main discussion board page appears with a list of available discussion forums. Forums are made up of individual discussion threads that can be organized around a particular subject. A thread is a conversation within a forum that includes the initial post and all replies to it. When you access a forum, a list of threads appears. [More Help](#)

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Forum	Description	Total Posts	Unread Posts	Unread Replies To Me	Total Participants
Ask Your Instuctor	Please post questions you have for your professor in this forum.	0	0	0	0
Student Cafe	Students can feel free to post questions or ideas to one another here.	0	0	0	0

Forum	Description	Total Posts	Unread Posts	Unread Replies To Me	Total Participants
Week 1 Discussion: The Machine Learning Landscape	<p>Because you cannot physically see your classmates, our weekly discussion forums will enable you to become acquainted with and interact with one another.</p> <p>In the Week 1 Discussion Forum, take a moment to introduce yourself to the class and answer the questions below:</p> <ul style="list-style-type: none"> • Have you had any exposure to machine learning previously? • What do you hope to learn from this course? • Have you done any end to end machine learning projects before? If yes, please describe the details. If no, what should you pay attention in your future machine learning project? <p>Post your response by Friday of Week 1 (11:59 p.m.), then respond to at least one peer's post by Sunday of Week 1 (11:59 p.m.). Please list reference pages that helped you answer the questions so fellow students can learn from these as well.</p>	0	0	0	0
Week 3 Discussion: Training Models	<p>In the Week 3 Discussion Forum, take a moment to discuss the questions below. Post your answers briefly and precisely and contribute to the discussion by responding to another post.</p> <p>Suppose the features in your training set have very different scales. Which algorithms might suffer from this, and how? What can you do about it?</p> <p>Why is gradient descent introduced rather than just leveraging normal equations to estimate the parameters in linear regression?</p> <p>Post your response by Friday of Week 3 (11:59 p.m.), then respond to at least one peer's post by Sunday of Week 3 (11:59 p.m.). Please list reference pages that helped you answer the question so fellow students can learn from these as well.</p>	0	0	0	0

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Week 4 Discussion: Support Vector Machines	<p>In the Week 4 Discussion Forum, take a moment to discuss the question below. Post your answers briefly and precisely and contribute to the discussion by responding to another post.</p> <p>What do you see as the advantage of support vector machines compared to regular regression?</p> <p>Post your response by Friday of Week 4 (11:59 p.m.), then respond to at least one peer's post by Sunday of Week 4 (11:59 p.m.). Please list reference pages that helped you answer the questions so fellow students can learn from these as well.</p>	0	0	0	0
Week 5 Discussion: Midterm Review	<p>We are now halfway through the course material. Write a short, one-paragraph post about your class experience so far.</p> <p>Post your response by Sunday of Week 5 (11:59 p.m.).</p>	0	0	0	0
Week 6 Discussion: Decision Trees	<p>In the Week 6 Discussion Forum, take a moment to discuss the question below. Post your answers briefly and precisely and contribute to the discussion by responding to another post.</p> <p>If a Decision Tree is overfitting the training set, is it a good idea to try decreasing max_depth?</p> <p>Post your response by Friday of Week 6 (11:59 p.m.), then respond to at least one peer's post by Sunday of Week 6 (11:59 p.m.). Please list reference pages that helped you answer the questions so fellow students can learn from these as well.</p>	0	0	0	0

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Week 7 Discussion: Ensemble Learning and Random Forests	<p>In the Week 7 Discussion Forum, take a moment to discuss the question below. Post your answers briefly and precisely and contribute to the discussion by responding to another post.</p> <p>If your AdaBoost ensemble underfits the training data, which hyperparameters should you tweak and how?</p> <p>Post your response by Friday of Week 7 (11:59 p.m.), then respond to at least one peer's post by Sunday of Week 7 (11:59 p.m.). Please list reference pages that helped you answer the questions so fellow students can learn from these as well.</p>	0	0	0	0
Week 8 Discussion: Dimensionality Reduction	<p>In the Week 8 Discussion Forum, take a moment to discuss the questions below. Post your answers briefly and precisely and contribute to the discussion by responding to another post.</p> <p>What is the curse of dimensionality? In what cases would you use vanilla PCA, Incremental PCA, Randomized PCA, or Kernel PCA?</p> <p>Post your response by Friday of Week 8 (11:59 p.m.), then respond to at least one peer's post by Sunday of Week 8 (11:59 p.m.). Please list reference pages that helped you answer the questions so fellow students can learn from these as well.</p>	0	0	0	0
Week 9 Discussion: Unsupervised Learning Techniques	<p>In the Week 9 Discussion Forum, take a moment to discuss the questions below. Post your answers briefly and precisely and contribute to the discussion by responding to another post.</p> <ol style="list-style-type: none"> 1. What is label propagation? Why would you implement it, and how? 2. What is the difference between anomaly detection and novelty detection? <p>Post your response by Friday of Week 9 (11:59 p.m.), then respond to at least one peer's post by Sunday of Week 9 (11:59 p.m.). Please list reference pages that helped you answer the questions so fellow students can learn from these as well.</p>	0	0	0	0

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Week 10 Discussion: Course Review	<p>You have now come to the end of your Machine Learning course. Please use this opportunity to evaluate the course for continuous curriculum improvement purposes through SPIRIT course evaluation survey. Please confirm you have completed the survey in this discussion board.</p> <p>Post your response by Sunday of the Week 10 (11:59 p.m.).</p>	0	0	0	0

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