

## Semi Supervised Learning And Domain Adaptation In Natural Language Processing Synthesis Lectures On Human Language Technologies

*L9 Semi-Supervised Learning and Unsupervised Distribution Alignment -- CS294-158-SP20 UC Berkeley*

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[FixMatch: Simplifying Semi-Supervised Learning with Consistency and Confidence](#)[Robust Semi-Supervised Learning](#) [Introduction to Semi-supervised Learning using MixMatch - Richard Löwenström](#) **Big Self-Supervised Models are Strong Semi-Supervised Learners (Paper Explained)**

Sebastian Ruder: Neural Semi-supervised Learning under Domain Shift **Adversarial Training Methods for Semi-Supervised Text Classification, NIPS 2016 | Andrew M. Dai**  
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Although data is abundant, data labeling is expensive. Semi-supervised learning methods combine a few labeled samples with a large corpus of unlabeled data to effectively train models. This paper introduces our proposed method LiDAM, a semi-supervised learning approach rooted in both domain adaptation and self-paced learning. LiDAM first performs localized domain shifts to extract better ...

*LiDAM: Semi-Supervised Learning with Localized Domain ...*

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The answer to this question lies on the intersection of transfer learning [4] and semi-supervised learning [5-8]. Transfer learning attempts to address domains' discrepancy by leveraging a domain-invariant representation across input domains, with different distributions, associated with the task of

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Supervised learning is a type of deep learning methods which uses labelled datasets. While supervised learning offers superior performance benefits, it comes at a high cost, as labelling data requires human labour. Further, the cost is significantly higher when a data labelling has to be done by an expert, such as a medical practitioner. In such a scenario, semi-supervised learning proves to be a powerful alternative. SSL is a method where learning takes place with a small number of labelled ...

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The main goal of semi-supervised domain adaptation with subspace learning (SDASL) is to bridge the domain gap by jointly constructing good subspace feature representations to minimize domain divergence and leveraging unlabeled target data in conjunction with labeled data.

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Semi-supervised learning — that is, using more unlabeled data; or, Self-supervised learning — that is, without using any extra data, just by first doing one step of self-supervised pre-

training without label information on the existing imbalanced data, can both greatly improve the model performance.

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Inspired by the above observations, in this paper we propose the first method that aims to simultaneously learn invariant representations and risks under the setting of semi-supervised domain adaptation (Semi-DA). First, we provide a finite sample bound for both classification and regression problems under Semi-DA.

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The state-of-the-art Embedding and Mapping approach for CDR (EMCDR) aims to infer the latent vectors of cold-start users by supervised mapping from the latent space of another domain. In this paper, we propose a novel CDR framework based on semi-supervised mapping, called SSCDR, which effectively learns the cross-domain relationship even in the case that only a few number of labeled data is available.

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Semi-supervised learning is an approach to machine learning that combines a small amount of labeled data with a large amount of unlabeled data during training. Semi-supervised learning falls between unsupervised learning and supervised learning. Unlabeled data, when used in conjunction with a small amount of labeled data, can produce considerable improvement in learning accuracy. The acquisition of labeled data for a learning problem often requires a skilled human agent or a physical experiment.

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Semi-supervised learning. The methods in this category employ a small set of labeled images and a large set of un-labeled data to learn a general data representation. Several works have explored applying semi-supervised learning to Generative Adversarial Networks (GANs). For example, [31, 36] merge the discriminator and classifier into

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Domain Adaptation. Semi-supervised domain adaptation (SSDA) is a very important task [8, 40, 1], however it has not been fully explored, especially with regard to deep learning based methods. We revisit this task and compare our approach to recent semi-supervised learning or unsupervised domain adaptation methods. The main challenge

*Semi-Supervised Domain Adaptation via Minimax Entropy*

Books also discuss semi-supervised algorithms, which can make use of both labeled and unlabeled data and can be useful in application domains where unlabeled data is abundant, yet it is possible to obtain a small amount of labeled data.

*Unsupervised and Semi-Supervised Learning*

Semi-Supervised Domain Adaptation by Covariance Matching Abstract: Transferring knowledge from a source domain to a target domain by domain adaptation has been an interesting and challenging problem in many machine learning applications.

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Abstract—Semi-Supervised Learning (SSL) traditionally makes use of unlabeled samples by including them into the training set through an automated labeling process. Such a primitive Semi-Supervised Learning (pSSL) approach suffers from a number of disadvantages including false labeling and incapable of utilizing out-of-domain samples.

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