





MITx 6.86x

Machine Learning with Python-From Linear Models to Deep Learning[Course](#)[Progress](#)[Dates](#)[Discussion](#)[Resources](#)[Course](#) / [Unit 4. Unsupervised Learning \(2 weeks\)](#) / [Lecture 15. Generative Models](#)[< Previous](#)

8. Prior, Posterior and Likelihood

Bookmark this page

Exercises due Apr 19, 2023 08:59 -03 Completed

Prior, Posterior and Likelihood**Video** [Download video file](#)**Transcripts** [Download SubRip \(.srt\) file](#) [Download Text \(.txt\) file](#)**Prior, Posterior and Likelihood**

1/1 point (graded)

Consider a binary classification task with two labels '+' (positive) and '-' (negative).

Let y denote the classification label assigned to a document D by a multinomial generative classifier with parameters θ^+ for the positive class and θ^- for the negative class.

Which of the following option(s) is/are true about the prior, posterior or likelihood distribution of the generative classifier? Choose the correct notations from the statements below:

☒ $P(y = +|D)$ is the posterior distribution☐ $P(y = +|D)$ is the prior distribution

[< Previous](#)[Next >](#)

edX

[About](#)[Affiliates](#)[edX for Business](#)[Open edX](#)[Careers](#)[News](#)

Legal

[Terms of Service & Honor Code](#)[Privacy Policy](#)[Accessibility Policy](#)[Trademark Policy](#)[Sitemap](#)[Cookie Policy](#)[Do Not Sell My Personal Information](#)

Connect

[Blog](#)[Contact Us](#)[Help Center](#)[Security](#)[Media Kit](#)