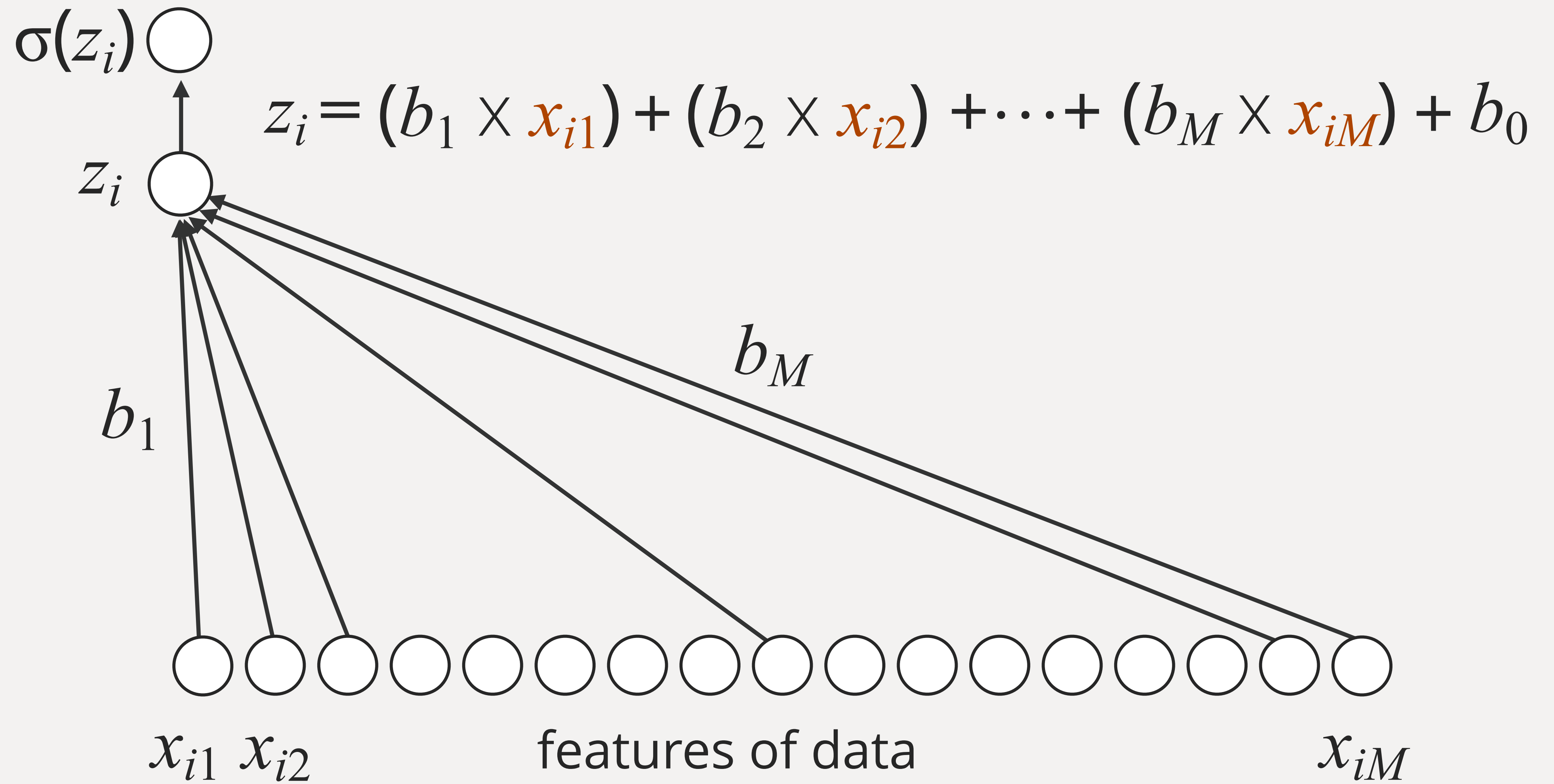


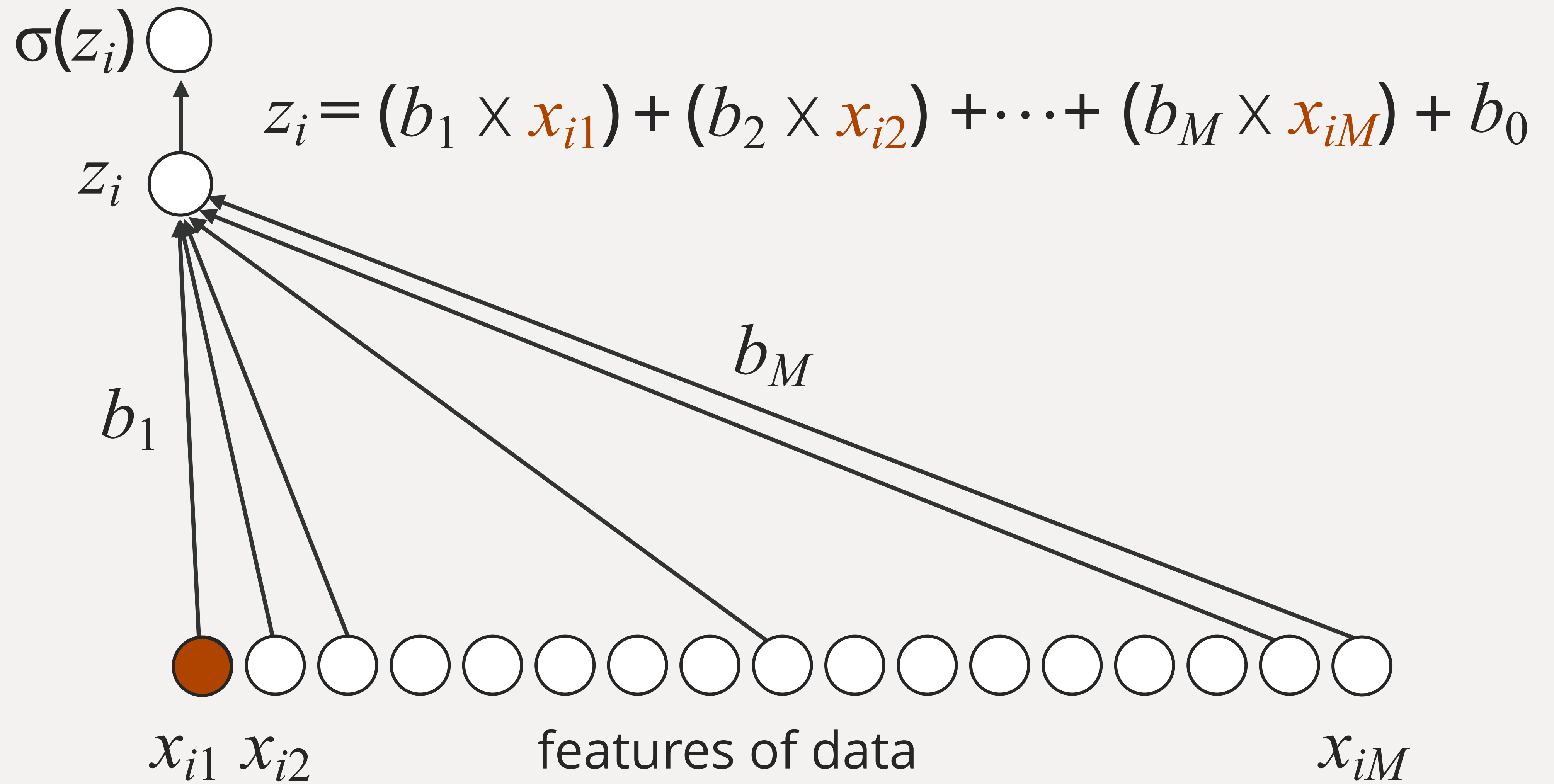


Model Selection

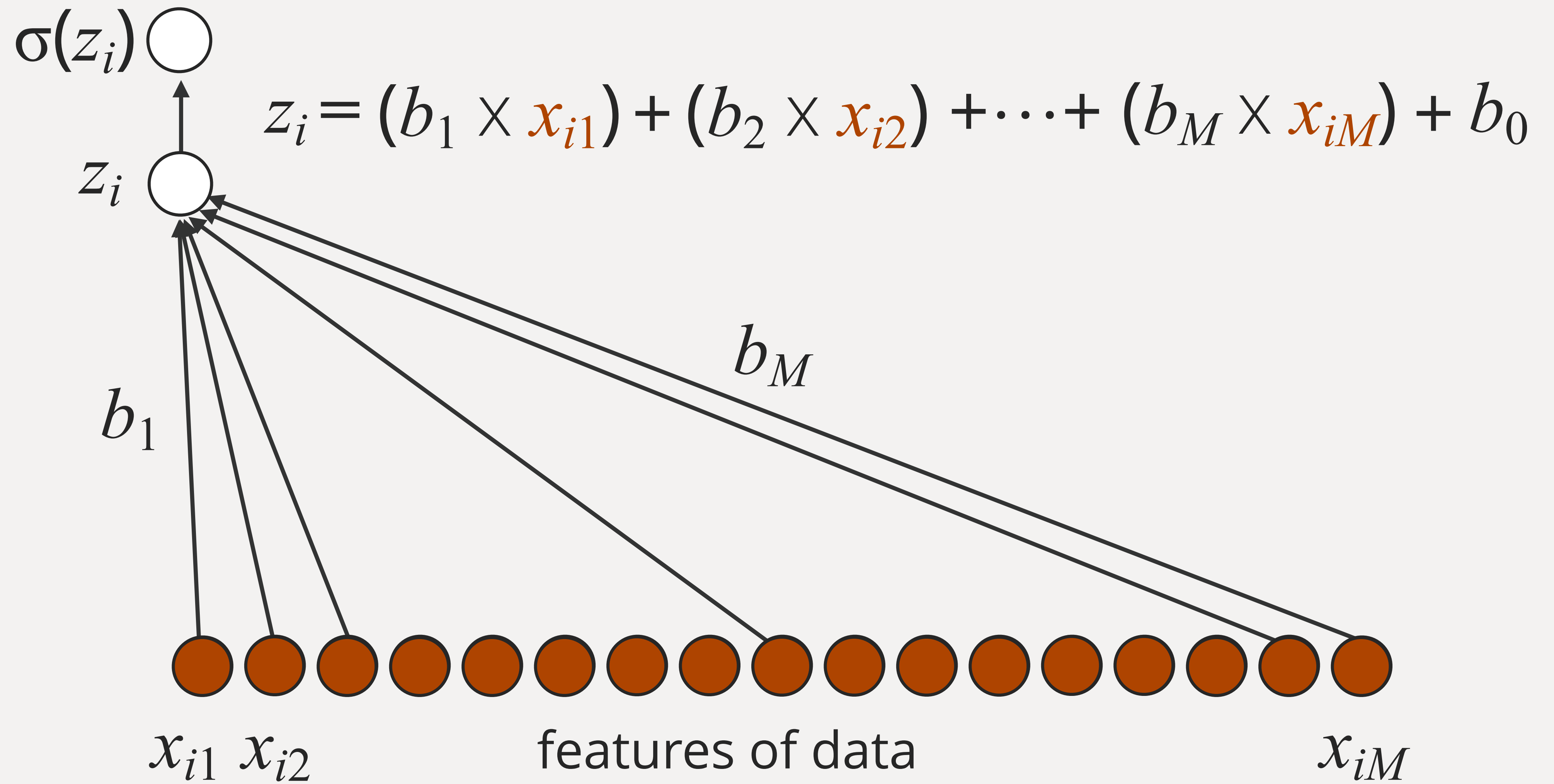
Model Selection



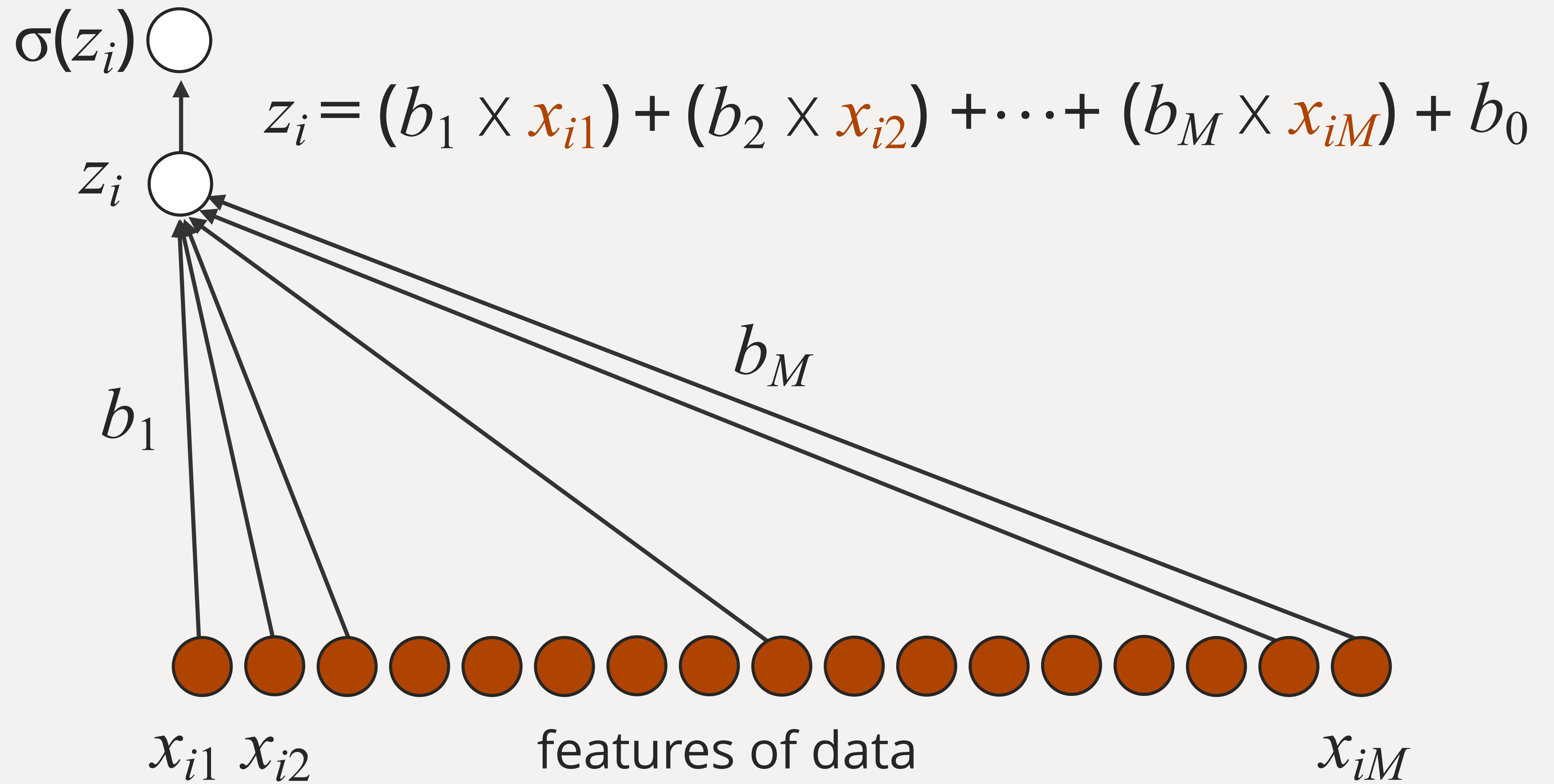
Model Selection



Model Selection

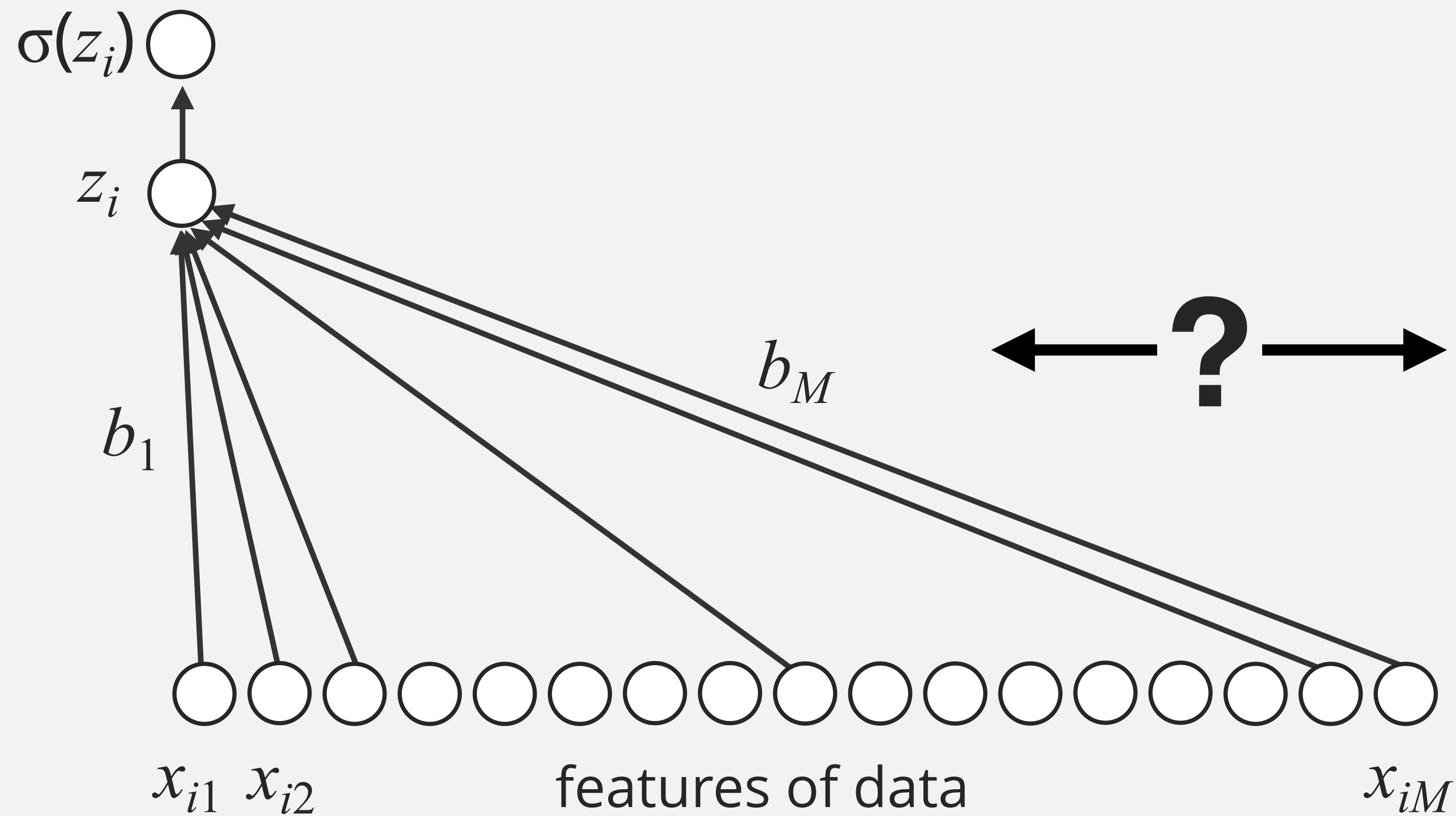


Model Selection

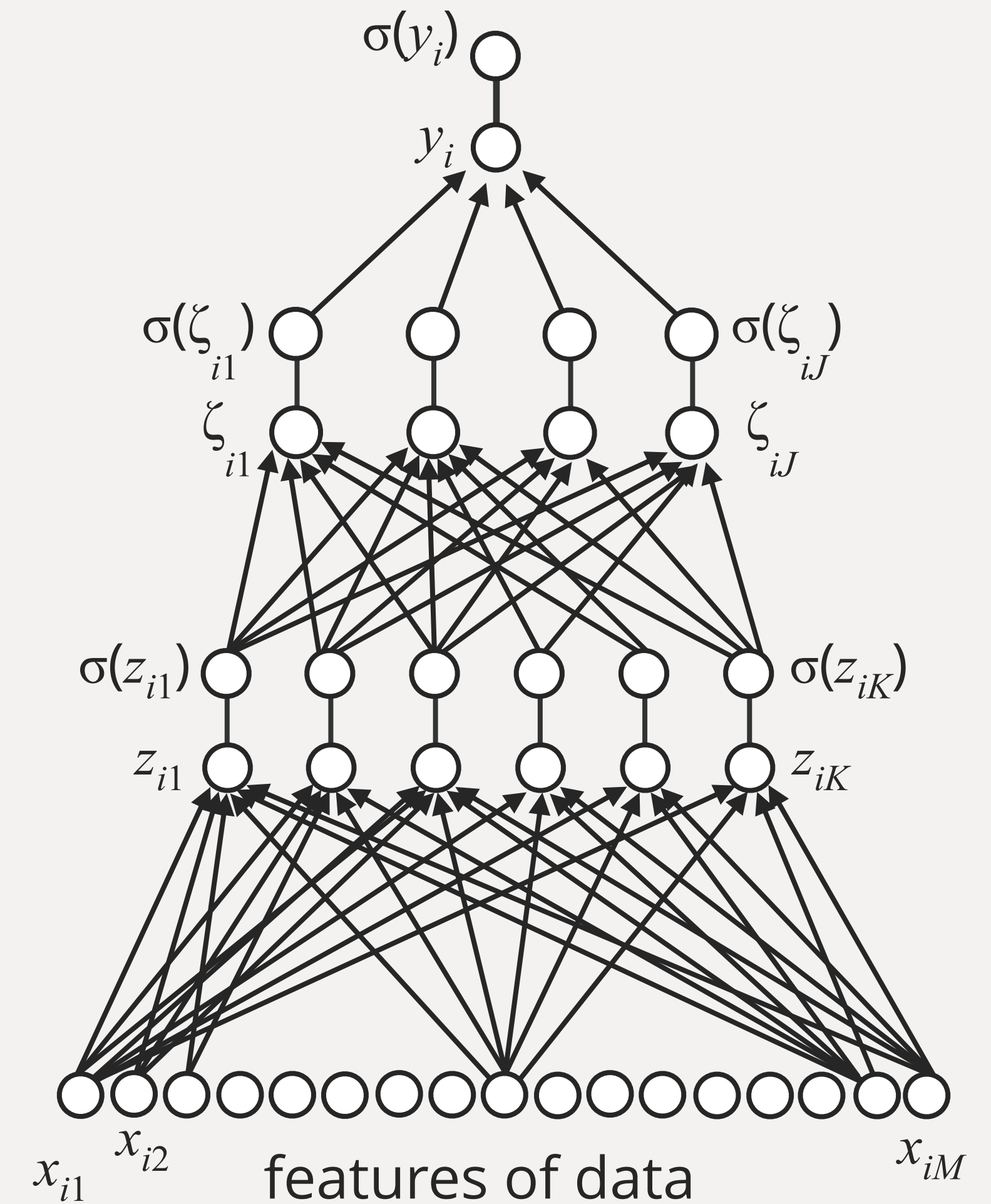


Bias Variance Trade-Off

Logistic Regression



Multilayer Perceptron

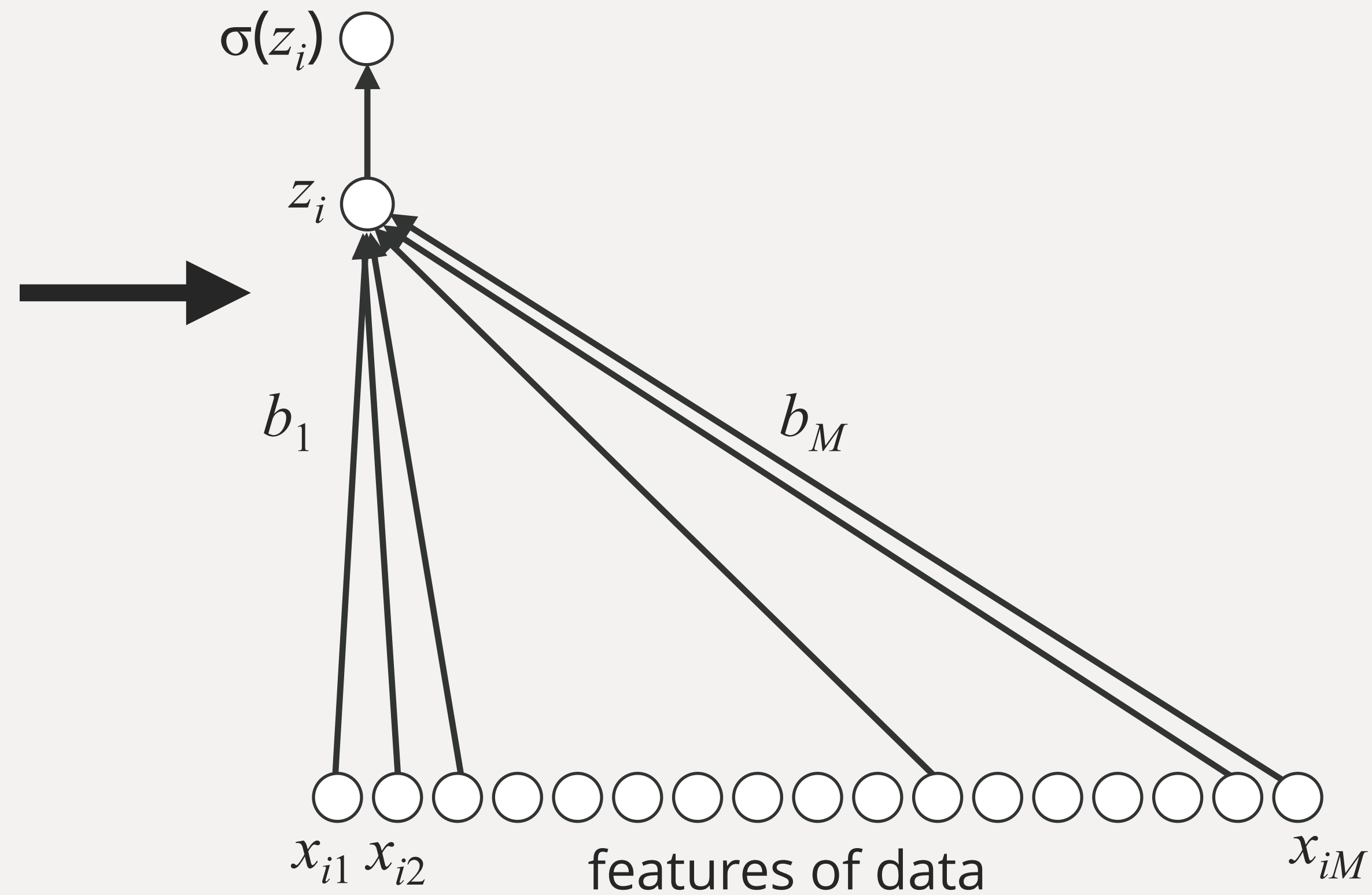


Bias Variance

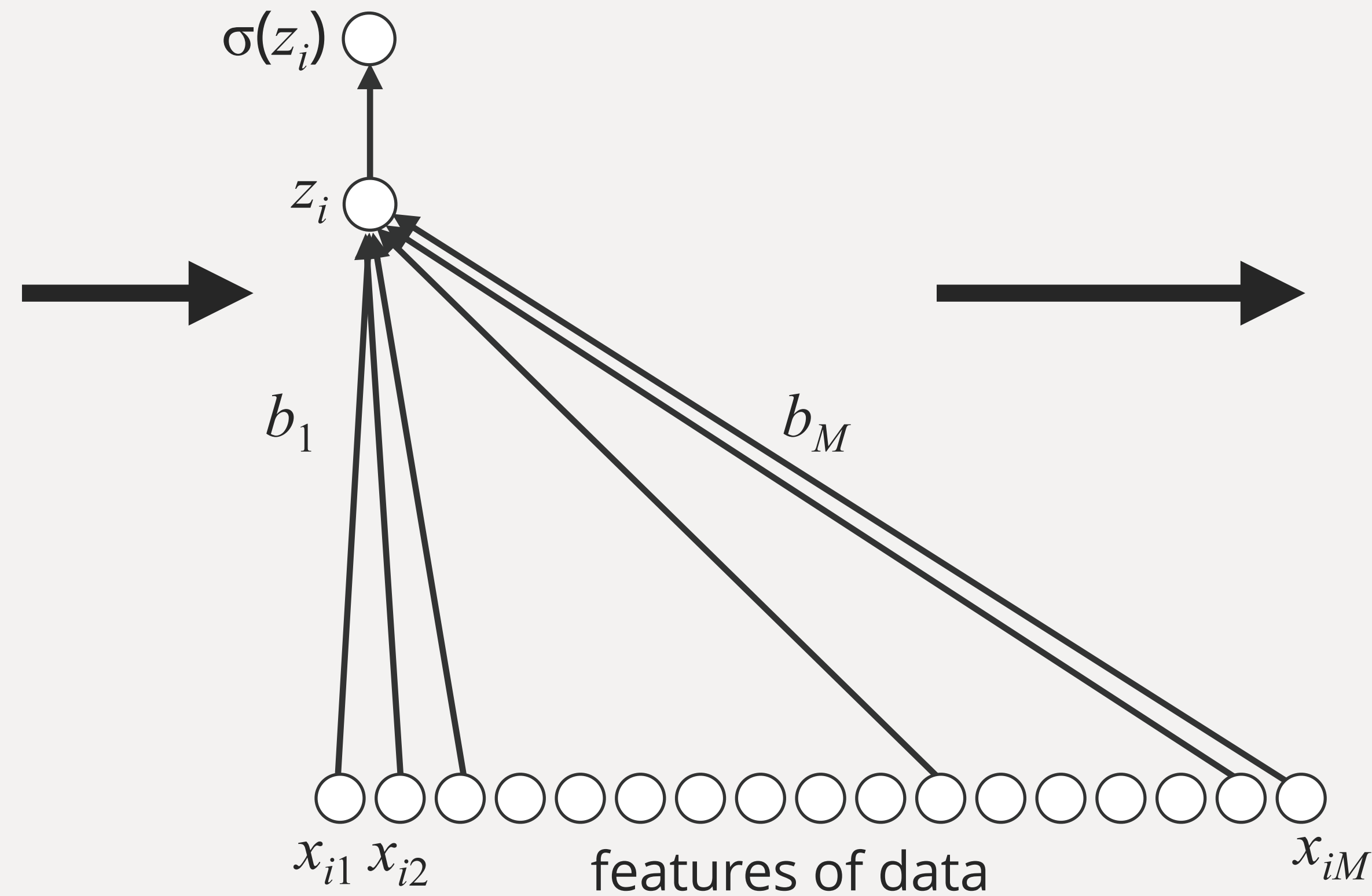
Trade-Off on MNIST



Bias Variance Trade-Off on MNIST



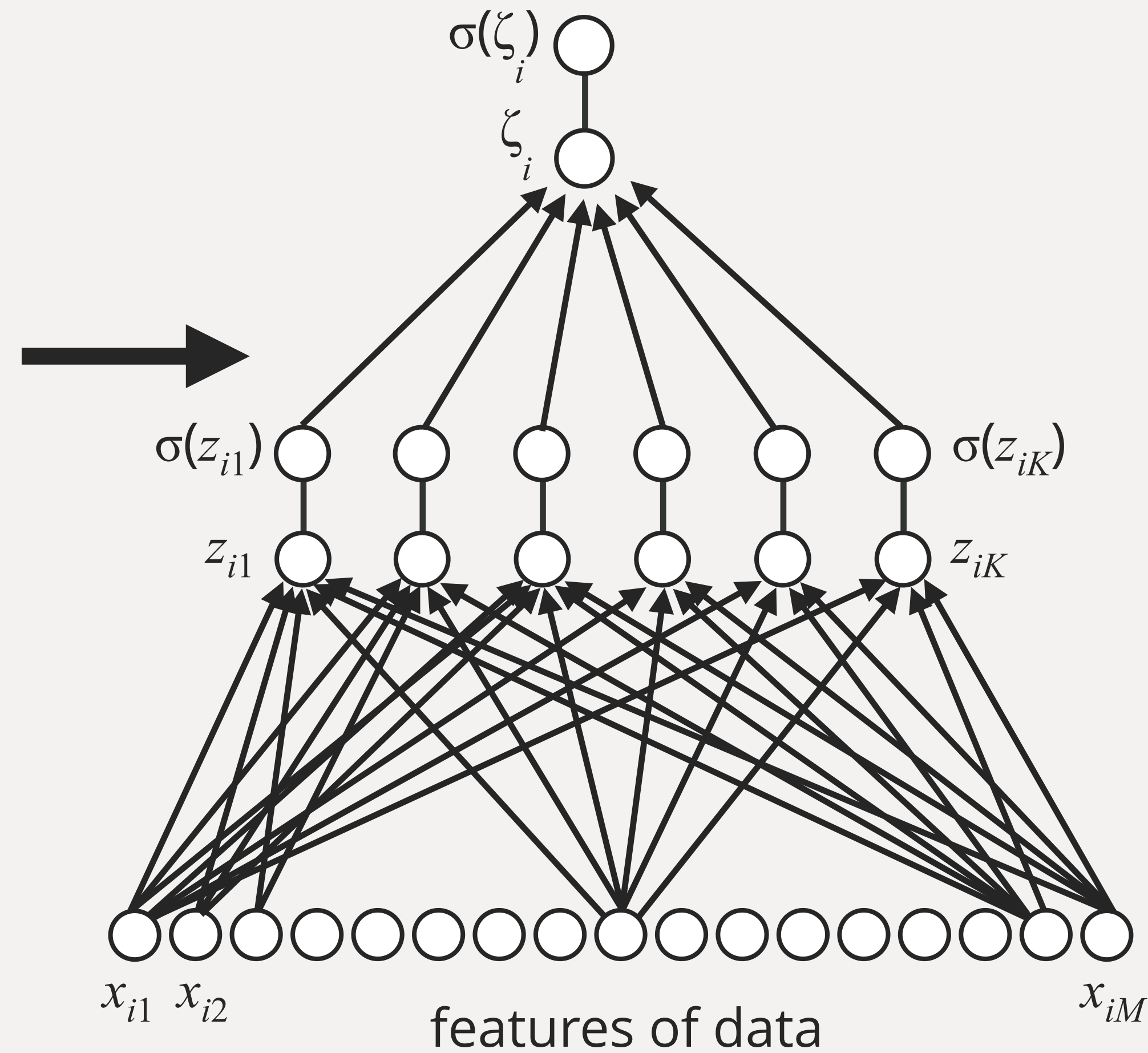
Bias Variance Trade-Off on MNIST



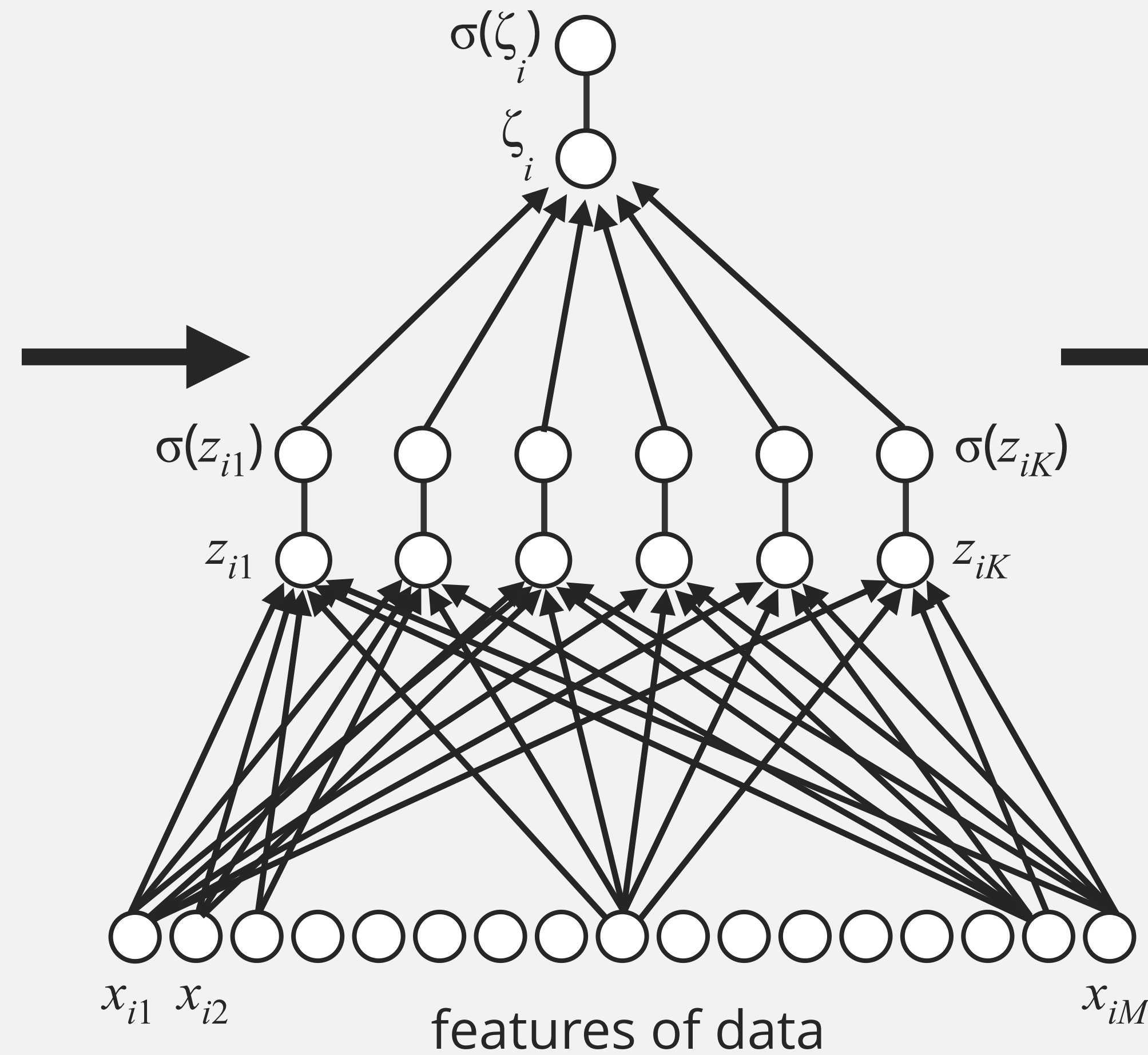
91%
accurate

PREDICTION

Bias Variance Trade-Off on MNIST



Bias Variance Trade-Off on MNIST



96%
accurate

PREDICTION



Logistic regression is restricted
to a linear classifier



Multilayer perceptron allows
for a non-linear classifier

Credits

MNIST Dataset of Handwritten Digits (Images)

Yann LeCun (Courant Institute, NYU) and Corinna Cortes (Google Labs, New York) CC-by-SA 3.0

<http://yann.lecun.com/exdb/mnist/>