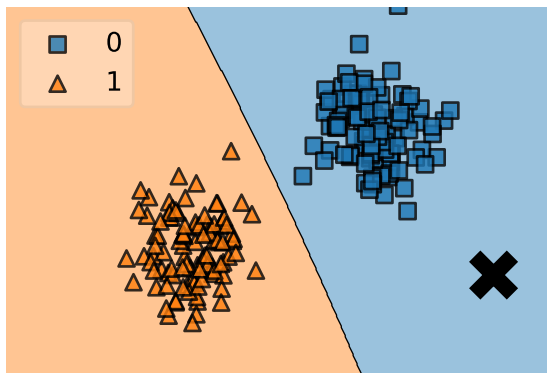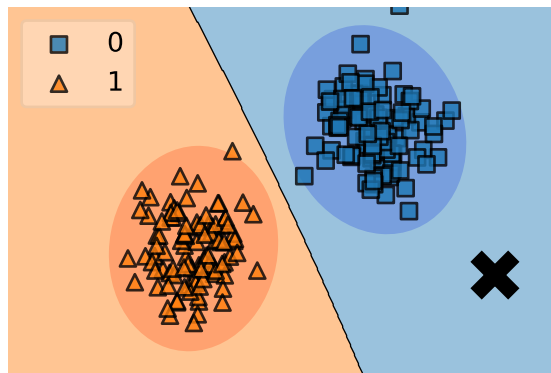Data

$p(y|\mathbf{x})$

$p(blue|\mathbf{x})$ is high
= certain decision!

$p(\mathbf{x}, y) = p(y|\mathbf{x})\, p(\mathbf{x})$

$p(blue|\mathbf{x})$ is high
and $p(\mathbf{x})$ is low
= uncertain decision!