First hypothesis

Reweighted training data

$\varepsilon_1 = 0.30$

$\alpha_1 = 0.42$
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Yoav Freund, Rob Schapire

boosting - example

first hypothesis  second hypothesis  reweighted training data

\[ \varepsilon_2 = 0.21 \]
\[ \alpha_2 = 0.65 \]
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BOOSTING - EXAMPLE

first hypothesis
second hypothesis
third hypothesis

\( \varepsilon_3 = 0.14 \)
\( \alpha_3 = 0.92 \)
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BOOSTING - EXAMPLE

first hypothesis
second hypothesis
third hypothesis

$H_{\text{final}} = \text{sign}(0.42 + 0.65 + 0.92)$
BOOSTING - EXAMPLE

Decision boundary

\[ H_{\text{final}} = \text{sign}(0.42 + 0.65 + 0.92) \]