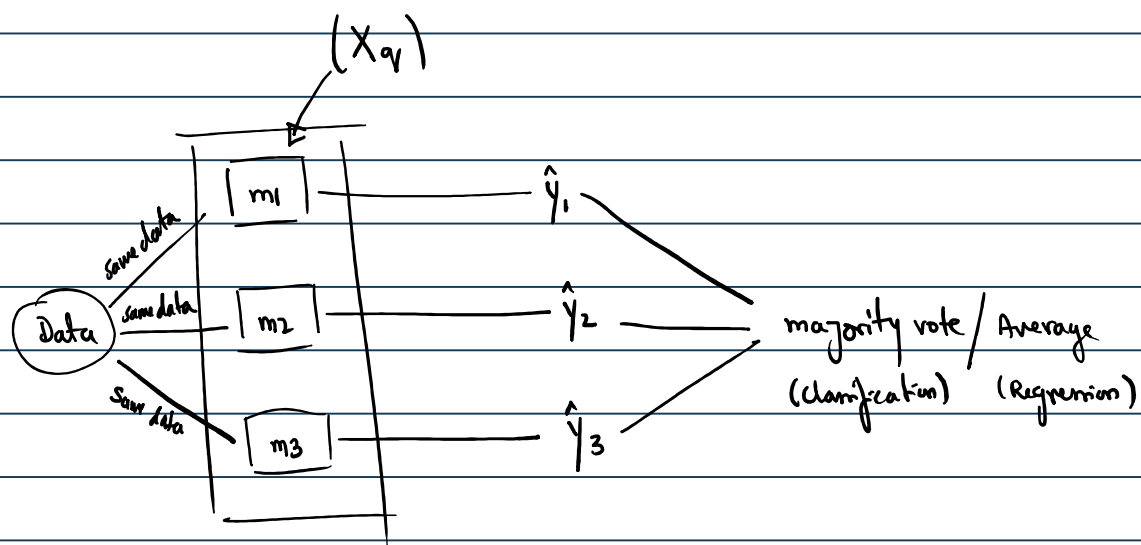


Voting Ensemble

Sunday 5 May 2024 1:59 PM

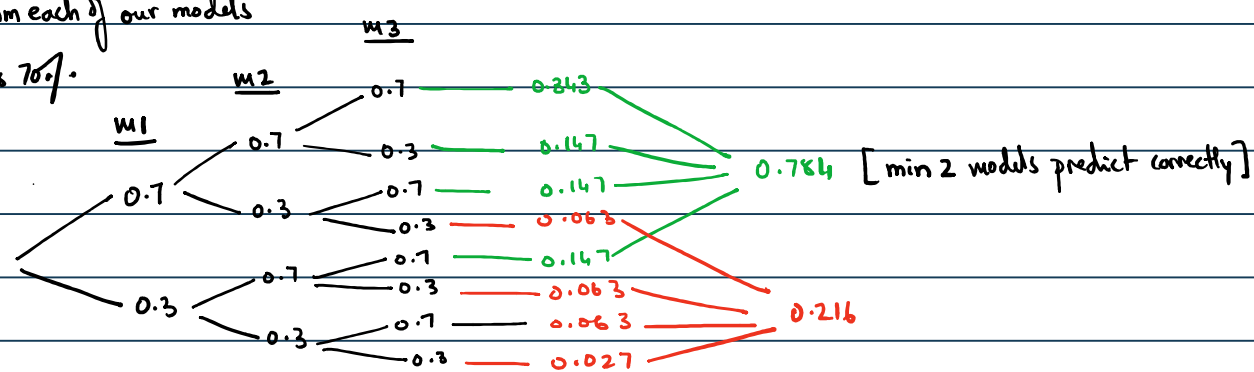


→ Assumptions

- Base models are independent of each other
- min 51% performance for each individual model

Let's assume each of our models

performance is 70%.



→ Hard vs Soft voting

	Hard	Soft
$m_1 \begin{cases} 0 - 0.6 \\ 1 - 0.4 \end{cases}$	0	
$m_2 \begin{cases} 0 - 0.2 \\ 1 - 0.8 \end{cases}$	1	$0 - (0.6 + 0.2 + 0.4) / 3 = 0.4$ $1 - (0.6 + 0.8 + 0.6) / 3 = 0.6$
$m_3 \begin{cases} 0 - 0.4 \\ 1 - 0.6 \end{cases}$	1	
Verdict	1	1