

KL DIVERGENCE

KL [
$$f \parallel g$$
] = $\int f(x) \log \frac{f(x)}{g(x)} dx$

MINIMIZE:

KL [$q \mid \underline{w} \mid 0$) || $p \mid \underline{w} \mid D$)] =

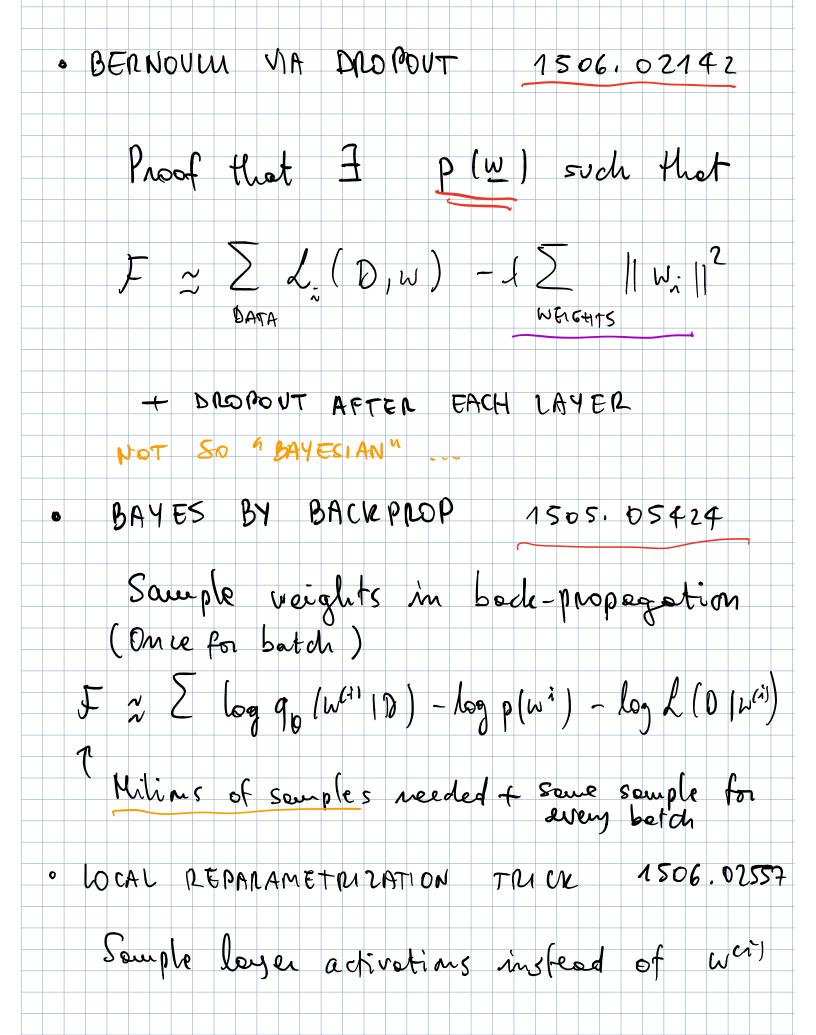
= $\int dw q(\underline{w} \mid \underline{0}) \log \frac{q(\underline{w} \mid \underline{0})}{p(\underline{w} \mid D)}$

= $\int dw q(\underline{w} \mid \underline{0}) \log \frac{q(\underline{w} \mid \underline{0})}{p(\underline{w} \mid D)} dw q(\underline{w}, \underline{0})$

= $\int dw q(\underline{w} \mid \underline{0}) \log \frac{q(\underline{w} \mid \underline{0})}{p(\underline{w})} \int dw q(\underline{w}, \underline{0})$

= $\int dw q(\underline{w} \mid \underline{0}) \log \frac{q(\underline{w} \mid \underline{0})}{p(\underline{w})} \int dw q(\underline{w}, \underline{0})$

= $\int dw q(\underline{w} \mid \underline{0}) \log \frac{q(\underline{w} \mid \underline{0})}{p(\underline{w})} \int dw q(\underline{w}, \underline{0})$



	1803. 04386 ht independently within a
mina - betch	is us 1802. 04 908
	nopping to complex
SEE NOTEBOOK!	
(Efp:) Furou	17 + LOCAL N.T.

PREDICTIONS & UNCERTAINTY Var (P(yo, xo)) = E [yo, yot last layer Episten

