Tutorial 4 Varun Magotra

Page.

Mining statistically independent sources

Var (x) = <(x-<x7)=>

2 <x27 - < x >2

2 ( ( wisi) > - ( wisi > 2

= & wing < Si Sgr - & wing < si><5j>

= \( \omega\_{i} \omega\_{i} \) \( \langle \sisting \) \( \langle \sisting \) \( \langle \sisting \) \( \langle \sin \omega\_{i} \) \( \langle \sin \omega\_{i}

(4sis, > - < si> < si>)

= \( \wingle \( \langle \sists\_j \rangle - \langle \sizts\_j \rangle - \langle \wingle \( \sizts\_j \rangle - \langle \sizts\_j \rangle \)
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Si and Sy are startically independent for ity

Also, Var (Si) =1

To quarante that the misture has unit variance

Var(x) 21 .. & wi 21

". The following constraint has to be unpoused on the weight

Z W1221

