Homework - Double Descent a) minimize > ax such that:  $\sum_{k=1}^{N} a_k p(x; v_k) - y = 0$ We can minimize a quadratic function given a linear constraint using Quadratic Programming The given objective function will minimize when each component of it is minimum, i.e. we consider it as a matrix. we can write given function as,  $min f(x) = \frac{1}{2} a^T Q a$ where Q = [2] KKT conditions  $\nabla L(a^*, x^*) = \frac{1}{2} a^T Q + x^{*T} \phi(x; v_k)$ A a\* p(x; VK) - y = 0

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