

Exercise sheet

Lecturer: Georgios P. Karagiannis

georgios.karagiannis@durham.ac.uk

Part 1. Stochastic learning

Exercise 1. (★) Let $f : \mathbb{R}^d \rightarrow \mathbb{R}$ such that $f(w) = g(\langle w, x \rangle + y)$ for some $x \in \mathbb{R}^d$, $y \in \mathbb{R}$. Show that: If g is convex function then f is convex function.
