Optimization + Assignments 3, 4

(Neural Networks Implementation and Application Tutorial)

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Overview

- Assignment 1
- Hessian and Jacobian
- Saddle Point
- Assignment 2

Assignment 3

TODO

Functions

• $f_1: \mathbb{R} \to \mathbb{R}$ $f_2: \mathbb{R}^m \to \mathbb{R}$ $f_3: \mathbb{R} \to \mathbb{R}^n$ $f_4: \mathbb{R}^m \to \mathbb{R}^n$

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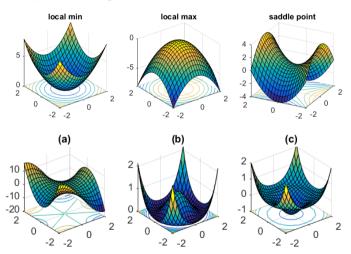
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Saddle Point

• What is the saddle point? Is it good?



Assignment 4

Any questions?

Resources

• How can it be trapped in a saddle point?