



Czech Technical University in Prague
Faculty of Nuclear Sciences and
Physical Engineering

General Framework for Classification at the Top

Dissertation



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Academic year:

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Poděkování:

Thanks thanks thanks thanks thanks thanks thanks thanks thanks thanks thanks
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Čestné prohlášení:

Prohlašuji na tomto místě, že jsem předloženou práci vypracoval samostatně, a že jsem uvedl veškerou použitou literaturu.

V Praze dne 1. prosince 2021

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Ing. Václav Mácha

Název:	Title title title title title title
Autor:	Ing. Václav Mácha
Obor:	Matematické inženýrství
Druh práce:	Disertační práce
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How to

[illegible]

Theorem 0.1

[illegible]

Definition 0.2

[illegible][illegible]

0.1 Ranking Problems

[illegible]

0.2 Accuracy At the Top

[illegible]

Definition 0.3

[illegible]

0.2 Accuracy At the Top

[illegible]

0.3 Hypothesis Testing


[illegible]

Theorem 0.4

[illegible]

Proof:

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Introduction

Many binary classification problems focus on separating the dataset by a linear hyperplane $\mathbf{w}^\top \mathbf{x} - t$. A sample \mathbf{x} is deemed to be positive or relevant (depending on the application) if its score $\mathbf{w}^\top \mathbf{x}$ is above a threshold t . Multiple problem categories belong to this framework:s

Linear Classification at the Top

Non-Linear Classification at the Top



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