Title of your project goes here

by

Your name here

Master Thesis in
Information and Communication Technology

DRAFT VERSION 3.6

The University of Agder

Grimstad, January 23, 2008

Abstract

Your absctract goes here. Thesis template by Aleksander M. Stensby.

Preface

Your preface goes here.

Contents

List of Figures

List of Tables

Chapter 1

Introduction

Approx. 10 pages

This document forms a general structure for a thesis. Normally, background, and solution chapter may be split into several different chapters!

1.1 Introduction

1.2 Motivation

1.3 Goal

Goal of the thesis.

1.3.1 Field of research

1.4 Thesis definition/objective / Statement of the Problem

1.5 Contributions

1.6 Target audience

1.7 Report outline / Thesis Organization

Chapter 2

Background

2.1 Sample stuff

Some simple and useful latex formatting.

2.1.1 Quotations and citing

It is explained in detail in [1, Ch.20] that

> *"the true hypothesis eventually dominates the Bayesian predication. For any fixed prior that does not rule out the true hypothesis, the posterior probability of any false hypothesis will eventually vanish, simply because the probability of generating "uncharacteristic" data indefinitely is vanishingly small."*

2.1.2 Figures

This distribution, and its probability density function, is displayed in Figure 2.1.2.

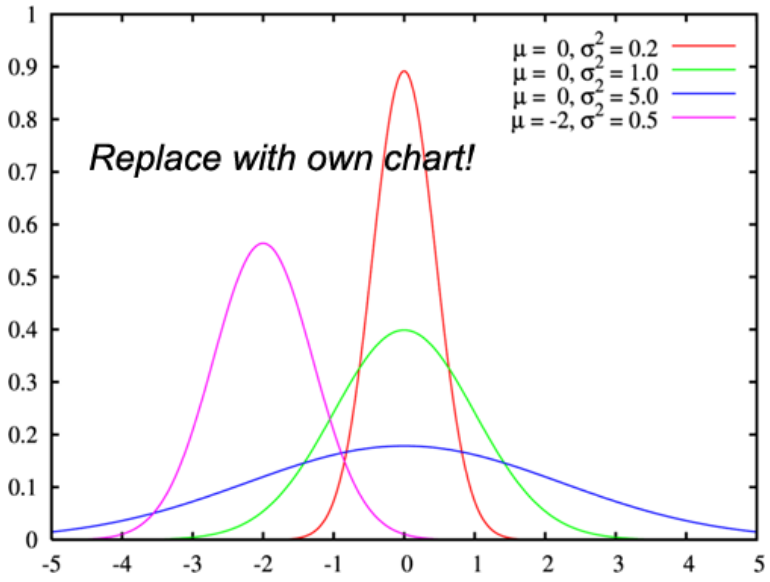

Figure 2.1: The Normal distribution PDF.

2.1.3 Equations

By using these probabilities, and Bayes formula, we can derive the Bayes classifier.

$$P(\omega_i|\boldsymbol{x}, \mathcal{X}) = \frac{p(\boldsymbol{x}|\omega_i, (X))P(\omega_i|\mathcal{X})}{\sum_{j=1}^{c} p(\boldsymbol{x}|\omega_j, \mathcal{X})P(\omega_j|\mathcal{X})}, \tag{2.1}$$

when we can separate the training samples by class into c subsets $\mathcal{X}_1, \ldots, \mathcal{X}_c$, with the samples in $\mathcal{X}_i$ belonging to ω_i.

Chapter 3

Proposed Solution

Approx. 10 pages

3.1 Proposed solution / algorithm

3.1.1 The basic algorithm

3.1.2 Discussion of design issues

3.1.3 Algorithmic Enhancements

3.1.4 Discussion of the Parameter Space

3.2 Prototype

3.3 Justification of Claim to Originality

3.4 Valuation of Contribution

3.5 Alternatives

Chapter 4

Testing

Chapter 5

Conclusion and further work

Approx. 5 pages

5.1 Summary of Results

5.2 Conclusion

"My conclusion offers a compelling final comment to my argument, one that is persuasive for my intended audience."

5.3 Contributions

List of contributions to new knowledge

5.4 Further Work

Bibliography

[1] P. Norvig and S. Russel, *Artificial Intelligence A Modern Approach*. Prentice Hall, 2003.