

Bayesian Optimisation using Neural Networks

by

Devang Agrawal (Queens')

Fourth-year undergraduate project in

Group F-, 2015/2016

I hereby declare that, except where specifically indicated, the work submitted herein is my own original work.

Signed: _____ Date: _____

Summary

This project explored the use of neural networks for Bayesian Optimisation. No more than 100 words.

Contents

1	Introduction	3
2	Theory and Design of Experiment	3
3	Apparatus and Experimental Results	3
4	Results and Discussion	3
A	Extra Stuff	3

1 Introduction

Bayesian Optimisation is a very interesting problem. It has been used in ..
. Neural networks can be used for dimensionality reduction and can be used
for feature selection. It is not trivial how to build probabilistic models using
Neural Networks. Several different options are available

2 Theory and Design of Experiment

Just a test Just a test Just a test Just a test Just a test Just a test Just a
test Just a test Just a test Just a test Just a test Just a test ust a test Just
a test Just a test Just a test Just a test Just a test Just a test Just a test
Just a test Just a test Just a test Just a test

3 Apparatus and Experimental Results

Just a test Just a test Just a test Just a test Just a test Just a test Just a
test Just a test Just a test Just a test Just a test Just a test ust a test Just
a test Just a test Just a test Just a test Just a test Just a test Just a test
Just a test Just a test Just a test Just a test

4 Results and Discussion

Just a test Just a test Just a test Just a test Just a test Just a test Just a
test Just a test Just a test Just a test Just a test Just a test ust a test Just
a test Just a test Just a test Just a test Just a test Just a test Just a test
Just a test Just a test Just a test Just a test

A Extra Stuff