



Thesis title goes here

By

HERE goes Author name

Supervisor

Prof. Someone

**Thesis Submitted in Partial Fulfillment of the Requirements for the
Degree of Master of Science in Computer Science**

**Princess Sumaya University for Technology
King Abdullah I School of Graduate Studies and Scientific
Research**

December, 2018

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Here goes the thesis title

By

John Random Hacker

Supervisor

Prof. John Random Hacker

Abstract

Paragraph on the topic of “Something”, Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

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Dedication

To my mother and father.

To my wife and my family.

I dedicate this work.

HERE GOES AUTHOR NAME

Acknowledgments

I wish to express my deep sense of gratitude to my supervisor Prof. XYZ, for his outstanding guidance and support which helped me in completing my thesis work. I would also like to thank Dr. XYZ, for her valuable assistance and help to fulfill my work.

HERE Goes Author Name

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List of Abbreviations

Abbreviation	Meaning
ConvNet	Convolutional Neural Network
ML	Machine Learning

Chapter 1. Introduction

1.1 Problem Statement

This template can be found on github.com/muayyad-alsadi/psut-latex-thesis

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1.2 Application

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1.3 Scope

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1.4 Methodology

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1.5 Contribution

This research study Machine Learning (ML) and Convolutional Neural Networks (ConvNets) (show how to use singular and plural of some acronym) and then they are referenced again ML and ConvNets. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

- Lorem ipsum dolor sit amet.
- Lorem ipsum dolor sit amet.

This research introduces the following terms:

MyTerm: Lorem ipsum dolor sit amet.

MyTerm2: Lorem ipsum dolor sit amet.

1.6 Thesis Organization

This thesis is divided into five chapters. After this introduction chapter, comes the “**Chapter 2**”. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Chapter 2. Background

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2.1 My Section

A paragraph refer to another section, see section 2.2 for details.

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2.2 My other section

See formual 2.1 and 2.2

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Table 2.1: Comparing all versions of Inception

Model Name	layers	weights	mults	Top-1 accuracy	Top-5 accuracy
Inception v1	22	6.6M	1,498M	69.8	89.6
Inception v2	42	11M	1,934M	73.9	91.8
Inception v3	53	27M	5,719M	78.0	93.9
Inception v4	81	46M	13,882M	80.2	95.2
Inception ResNet V2	130	59M	14,882M	80.4	95.3

$$D = \{\chi, P(X); X \in \chi\} \quad (2.1)$$

and given a labeled training dataset $T = \{(X_1, y_1), (X_2, y_2), \dots\}$, for $X_i \in \chi$, $y_i \in Y$.

The classification task is defined(Pan & Yang, 2010) to find a function $g(X)$ that predicts the label having maximum conditional probability $P(y|x)$ or predict the joint probability of each label $f(X, y) = P(X, y)$ in the domain

$$\text{softmax}(o_j) = \frac{e^{o_j}}{\sum_{i=1}^n e^{o_i}} \quad (2.2)$$

See figure 2.1 and 2.2 to see how we insert graphs. Also one can refer sub-figure as in figure 2.2a. All those were EPS, PDF and SVG using “save as” feature in Inkscape. And for tables, see table 2.1.

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One can also refer to raster images as in figure 2.3

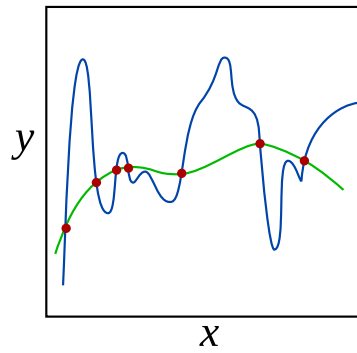


Figure 2.1: Two curves that have same loss of zero. Green one have smaller weights, blue one have higher weights.
Source: [Wikipedia](#)

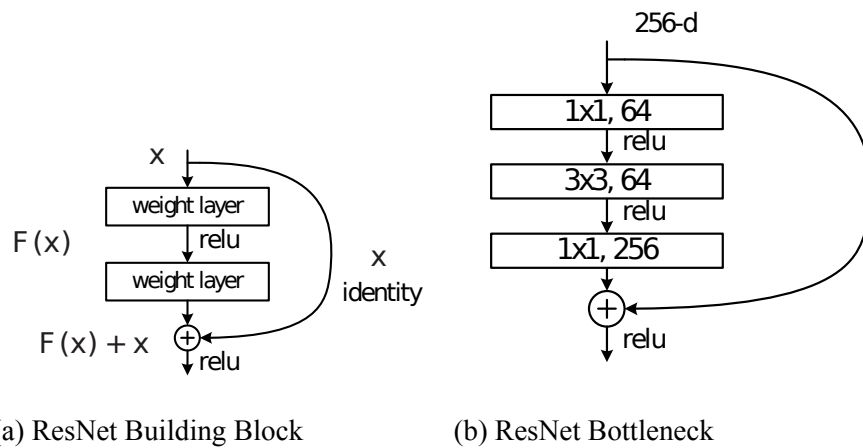


Figure 2.2: ResNet building block blah blah blah blah blah.
Source: He, Zhang, Ren, and Sun, 2016



Figure 2.3: A bird picture from birds-200 database.
Source: Wah, Branson, Welinder, Perona, and Belongie, 2011

Chapter 3. Literature Review

3.1 Something

One can cite books like this(Russell & Norvig, 2003) and (Negnevitsky, 2005) or a collection of books as in (Turing, 2009). A paper in journal like (Russakovsky et al., 2015), this (Duchi, Hazan, & Singer, 2011) and (He & Sun, 2015) and this (Bello, Zoph, Vasudevan, & Le, 2017) and a preprint (Iandola et al., 2016).

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3.2 Something

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Chapter 4. Implementation

4.1 Preparing datasets

4.1.1 Stock Datasets

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4.1.2 Vehicle Viewing Angles Dataset

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4.2 Other section

4.2.1 Subsection

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4.2.2 other subsection

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Chapter 5. Discussion and Recommendations

5.1 Results

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5.2 Recommendations

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