VISVESVARAYA TECHNOLOGICAL UNIVERSITY JNANA SANGAMA, BELAGAVI - 590018



Technical Seminar Report

On

"EfficientNet: Rethinking Model Scaling for CNNs"

Submitted in partial fulfillment of the requirements for the 8th semester of

Bachelor of Engineering in Computer Science and Engineering

of Visvesvaraya Technological University, Belgaum

Submitted by:

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Department of Computer Science and Engineering

(NBA Accredited for academic years 2018-19, 2019-20, 2020-21)

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CERTIFICATE

Certified that the Technical Seminar work entitled "EfficientNet: Rethinking Model Scaling for CNNs" has been successfully carried out by Yash Vora bearing USN 1RN16CS123; , bonafide students of RNS Institute of Technology in partial fulfillment of the requirements for the 8th semester, Bachelor of Engineering in Computer Science and Engineering of Visvesvaraya Technological University, Belgaum, during the academic year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated. The project report has been approved as it satisfies the project requirements of 8th semester BE in CSE.

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Convolutional neural networks (CNNs) are commonly developed at a fixed resource cost, and then scaled up in order to achieve better accuracy when more resources are made available. For example, ResNet can be scaled up from ResNet-18 to ResNet-200 by increasing the number of layers, and recently, GPipe achieved 84.3The conventional practice for model scaling is to arbitrarily increase the CNN depth or width, or to use larger input image resolution for training and evaluation. While these methods do improve accuracy, they usually require tedious manual tuning, and still often yield suboptimal performance. What if, instead, we could find a more principled method to scale up a CNN to obtain better accuracy and efficiency?

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ABSTRACT

Technology has become imperative in today's day to day functioning of every possible sector in the society. One of the key contributions of technology has been optimization of human effort. In an attempt to utilize and develop a systematic information storage and retrieval system for one such domain, the idea of Leave Web Application originated. The main objective of the system is in helping the company retrieve most of the information about leave applied by employees.

The project leave web application includes employee login, manager login. Employee login enables employees to apply for leave. Employee can also view their leave status. Manager login enables the manager to either accept or reject the leave for subordinates.

The project implements the client-server based architecture model, in which the clients can request the server for various data that is processed and stored by the server module. The complete process in this application is based on three-tier architecture in which the client-server interaction is the front-end processing and database is the back-end tool.

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