**Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY**

**(An Autonomous Institution, Affiliated to VTU, Belgaum, Aided by Government of Karnataka)**

**Near JnanaBharathi Campus, Mallathalli, Bangalore – 560056**

**“**OBJECT DETECTION AND CLASSIFICATION USING YOLO**”**

**A SEMINAR REPORT**

***Submitted by***

**RAHUL J**

**[1DA15CS094]**

***in partial fulfilment for the award of the degree***

***of***

**Bachelor of Engineering**

**in**

Computer Science & Engineering

Under the Guidance of

Mr. Harishkumar H C

Asst. Prof., Dept of CSE

Dr.AIT



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**2018-19**

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**CERTIFICATE**

This is to certify that this mini project report entitled **“**OBJECT DETECTION AND CLASSIFICATION USING YOLO**”** by RAHUL J (1DA15CS094), submitted in partial fulfilment of the requirements of the 8th semester seminar for the degree of Bachelor of Engineering in Computer Science & Engineering of Dr. Ambedkar Institute of Technology, Bengaluru, during the academic year 2018-19, is a bonafide record of work carried out under my guidance and supervision.

Signature of guide Signature of HOD

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**Asst. Prof., Dept of CSE Prof. & Head of C.S.E**

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**ABSTRACT**

Computer vision started to crystallize as a field in the 1960s, its aim was to try and mimic human vision systems and ask computers to tell us what they see, automating the process of image analysis. This kind of technology is the precursor to artificially intelligent image recognition. Before, any kind of image analysis had to be done manually, but as AI and ML evolved, different computer visions have evolved for detecting and classifying objects from images. YOLO is one such detection deep neural network that has been widely used in the recent years, which has the capability for detecting multiple classes of objects in a single glance.

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