**CURRENCY IDENTIFICATION USING CONVOLUTIONAL NEURAL NETWORK**

A PROJECT REPORT

*Submitted by*

**R.DESIKA (810015104019)**

**S.ELAKKIYA (810015104024)**

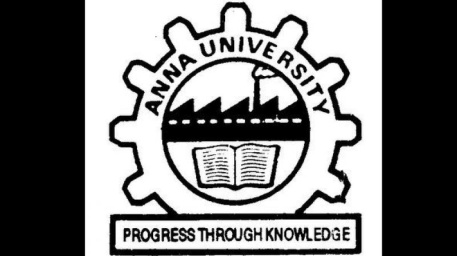
*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**



**UNIVERSITY COLLEGE OF ENGINEERING – BIT CAMPUS**

**TIRUCHIRAPALLI -620 024**

**ANNA UNIVERSITY::CHENNAI 600 025**

**APRIL 2019**

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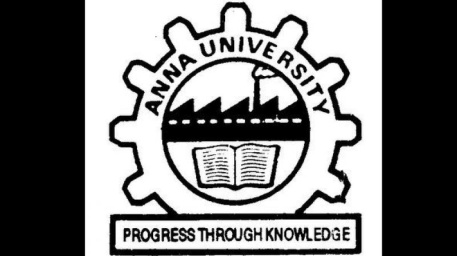
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**BONAFIDE CERTIFICATE**

Certified that this project report **“CURRENCY IDENTIFICATION USING CONVOLUTIONAL NEURAL NETWORK”** is the bonafide work of **“Ms. R.DESIKA** **AND Ms. S.ELAKKIYA”** who carried out the project work under my supervision.

**SIGNATURE SIGNATURE**

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Tiruchirapalli. Tiruchirapalli.

Submitted for project work examination held on ………………….

**INTERNAL EXAMINER EXTERNAL EXAMINER**

**DECLARATION**

We hereby declare the work entitled “**CURRENCY IDENTIFICATION USING CONVOLUTIONAL NEURAL NETWORK”** is submitted in partial fulfillment of the requirement for the award of the degree in B.E., Computer Science and Engineering, University College of Engineering(BIT Campus), Tiruchirappalli, is a record of our own work carried out by us during the academic year 2018-2019 under the supervision and guidance of Mr.N.Kathirvel, Teaching Fellow, Department of Computer Science and Engineering, University College of Engineering(BIT Campus), Tiruchirappalli. The extent and source of information are derived from the existing literature and have been indicated through the dissertation at the appropriate places. The matter embodied in this work is original and has not been submitted for the award of any degree, either in this or any other University.

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I certify that the declaration made above by the candidate is true.

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**ACKNOWLEDGEMENT**

I would like to convey my heartfelt thanks to our honorable Dean **Dr. T. SENTHILKUMAR,** Associate Professor for having provided me with all required facilities to complete my project without hurdles.

I would like to express my sincere thanks and deep sense of gratitude to guide **Mr. D. VENKATESAN,** Assistant Professor and Head, Department of Computer Science and Engineering, for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of this project work.

I would like to thank my project guide **Mr. N. KATHIRVEL,** Teaching Fellow, Department of Computer Science and Engineering, for his valuable guidance throughout the phase of the project. It is our responsibility to thank our project coordinator **Mr. C. SANKAR RAM AND Mr.P.KARTHIKEYAN,** Assistant Professor, Department of Computer science and Engineering for his constant inspiration that he has all through the project period.

I would like to thank **Mr. C. SURESH KUMAR,** Teaching Fellow, Department of Computer Science and Engineering, for his encouragement for this work.

I extend my thanks to all other teaching and non-teaching staffs for their encouragement and support.

I thank my beloved parents and friends, for their full support in my career development of this project.

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**ABSTRACT**

Technology is a part of our daily life. It replaced every human work in almost every field. With the thinking of visually impaired or blind people, it is difficult task to identify the paper currency as it has same feel without any brain marking on it. Though denomination of currency is based on size, it is difficult to identify whether it is a original note or fake note. To correctly recognize a currency it is very significant to choose the good features and suitable algorithm. The note denomination can be easily identified by the visually impaired persons using the Braille script that has been imposed into the new currency Indian notes. In the proposed system for the Currency identification, YOLO which uses Convolutional Neural Network (CNN) is used for feature learning and classification process. The objective of the project is to give blind users the capability to identify Indian currencies.

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| 5.2  5.3  5.4 | Layers of CNN  Pooling Layer  Fully Connected Layer  **LIST OF ABBREVIATIONS**   |  |  | | --- | --- | | API  ANN | Application Programming Interface  Artificial Neural Network | | CNN  ConvNet  GUI  IDLE  IDE  YOLO | Convolutional Neural Network  ConvolutionalNetwork  Graphical User Interface  Integrated Development and Learning Environment  Integrated Development Environment  You Only Look  Once | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | 18  21  22 |