

**PES UNIVERSITY**

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**100-ft Ring Road, Bengaluru – 560 085, Karnataka, India**

***6th Semester Project Report on***

**CAPTION GENERATOR**

*Submitted by*

**VIJAYKUMAR R PAI (PES1201702013)**

**Jan – May 2020**

**Under the guidance of**

|  |
| --- |
| Dr. Thenmozhi S |
| Associate Professor |
| Department of Computer Applications  PES University, Bengaluru - 560085 |

**FACULTY OF ENGINEERING**

**DEPARTMENT OF COMPUTER APPLICATIONS**

**PROGRAM – MASTER OF COMPUTER APPLICATIONS**



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**CERTIFICATE**

*This is to certify that the project entitled*

**CAPTION GENERATOR**

*is a bonafide work carried out by*

**VIJAYKUMAR R PAI - PES1201702013**

in partial fulfillment for the completion of 6th semester project work in the Program of Study MCA with specialization in Data Science under rules and regulations of PES University, Bengaluru during the period Jan. 2020 – May 2020. The project report has been approved as it satisfies the 6th semester academic requirements in respect of project work.

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| **Internal Guide**  Dr. Thenmozhi S, Associate Professor  Department of Computer Applications,  PES University, Bengaluru - 560085 | |  | |
| ***Chairperson***  Dr. Veena S | | ***Dean-Faculty of Engineering & Technology***  Dr. B K Keshavan | |
| ***Name and Signature of Examiners:*** | |  | |
| *Examiner 1:* | *Examiner 2:* | | *Examiner 3:* |

**DECLARATION**

I, **VIJAYKUMAR R PAI (PES1201702013),** hereby declare that the project entitled, ***CAPTION GENERATOR,*** is an original work done by us under the guidance of **Dr. THENMOZHI S, Associate Professor, Department of Computer Applications,** and is being submitted in partial fulfillment of the requirements for completion of 6th Semester course work in the Program of Study **MCA**. All corrections/suggestions indicated for internal assessment have been incorporated in the report. The plagiarism check has been done for the report and is below the given threshold.

**PLACE:**

**DATE:**

VIJAYKUMAR R PAI

PES1201702013

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Vijaykumar R Pai

**ABSTRACT**

You saw an image and your brain can easily tell what the image is about, but can a computer tell what the image is representing. Caption Generatoris a machine learning application that identifies the action portrayed in the given image. The objective is to generate a caption that will describe the image that will say what kind of actions is taking place in it. The application will take the image as input and recognize the context of an image and describe them in a natural language like English. At the macro level, Tensorflow, Keras with Python, CNN and LSTM library is used to train, test and generate a caption for the Image.

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