**MEDICAL REPORT GENERATION ON CHEST X-RAY IMAGES**

*Submitted in partial fulfillment of the requirements for the degree of*

**Bachelor of Technology**

in

**Computer Science and Engineering**

*by*

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**Under the guidance of**

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**School of Computer Science & Engineering**

**VIT, Vellore**



**June, 2020**

**DECLARATION**

I hereby declare that the thesis entitled “**MEDICAL REPORT GENERATION ON CHEST X-RAY IMAGES**" submitted by me, for the award of the degree of *Bachelor of Technology in* *Computer Science and Engineering* to VIT is a record of bonafide work carried out by me under thesupervision of **Prof. Sharmila Banu K.**

I further declare that the work reported in this thesis has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Place : Vellore

Date : 01/06/21 **Signature of the Candidate**

**CERTIFICATE**

This is to certify that the thesis entitled “**MEDICAL REPORT GENERATION ON CHEST X-RAY IMAGES**" submitted by **R.S. Rahul Sai, 17BCE0136, SCOPE,** VIT, for the award of the degree of*Bachelor of Technology in Computer Science and Engineering*, is a record of bonafide work carried out byhim / her under my supervision during the period, 01. 12. 2018 to 30.04.2019, as per the VIT code of academic and research ethics.

The contents of this report have not been submitted and will not be submitted either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university. The thesis fulfills the requirements and regulations of the University and in my opinion meets the necessary standards for submission.

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**Internal Examiner** **External Examiner**

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Place : Vellore

Date : 01/06/21 **Signature of the Candidate**

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**List of Abbreviations**

|  |  |
| --- | --- |
| **API** | **Application Program Interface** |
| **BLEU** | **Bilingual Evaluation Understudy** |
| **CAD** | **Computer Aided Diagnosis** |
| **CLI** | **Command Line Interface** |
| **CNN** | **Convolutional Neural Network** |
| **CSV** | **Comma Separated Values** |
| **CUDA** | **Compute Unified Device Architecture** |
| **CXR** | **Chest X-Ray** |
| **GPU** | **Graphics Processing Unit** |
| **GUI** | **Graphical User Interface** |
| **GRU** | **Gated Recurrent Units** |
| **HPC** | **High Performance Computing** |
| **IDE** | **Integrated Development Environment** |
| **JSON** | **JavaScript Object Notation** |
| **LSTM** | **Long Short Term Memory** |
| **NLP** | **Natural Language Processing** |
| **REST** | **Representational State Transfer** |
| **RNN** | **Recurrent Neural Networks** |
| **XML** | **Extensible Markup Language** |

**Symbols and Notations**

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