



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



Sl. No. : **10791**

Reg. No. : **13RECS1034**

The Board of Management of
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of
Science and Technology (Deemed to be University)

hereby makes known that

N K SENTHIL KUMAR

S/O CHANDIRA

has been admitted to the Degree of
Doctor of Philosophy

in

COMPUTER SCIENCE & ENGINEERING

having been certified by duly appointed examiners to be
qualified to receive the same in the year **SEP-2021**

in accordance with the provisions of

UGC Regulations 2009 (for the award of Ph.D. Degree)

Title of the Thesis:

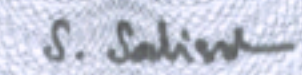
SENTIMENT ANALYSIS USING CONVOLUTIONAL NEURAL NETWORKS AND BI-DIRECTIONAL LONG SHORT TERM MEMORY WITH PART OF SPEECH TAGGING

Given under the seal of this Deemed to be University

Dated : **06-NOV-2021**




Registrar


Vice Chancellor


Chancellor



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s of UGC Act, 1956)

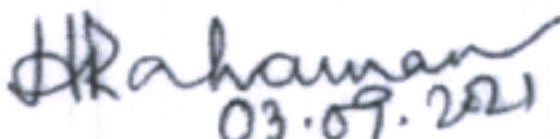


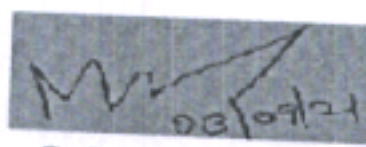
**REPORT OF THE BOARD OF EXAMINERS FOR THE PH.D PUBLIC ORAL
EXAMINATION OF Mr. N. K. SENTHILKUMAR (Reg. No: 13RECS1034), PART-TIME
RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI – 600 062**

The public Viva-Voce examination of **Mr. N. K. SENTHIL KUMAR (Reg. No: 13RECS1034)**, on his Ph.D. thesis entitled "**SENTIMENT CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORKS AND BI-DIRECTIONAL LONG SHORT TERM MEMORY WITH PART OF SPEECH TAGGING**" submitted for the award of Ph.D. degree in the Department of **Computer Science and Engineering**, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

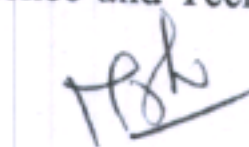
Date	:	03/09/2021, Friday at 11.00 A.M.
Mode	:	Online Video Conference – Google Meet
Meeting Link	:	http://meet.google.com/tri-suot-vkq
Indian Examiner	:	Dr. Hafizur Rahaman Professor & Head, Department of Information Technology, Indian Institute of Engineering Science and Technology, Shibpur, Howrah - 711 103, West Bengal, India.
Subject Expert	:	Dr. M. Vinayaka Murthy Professor, School of Computer Science and Applications, REVA University, Bangalore-560064, India.
Supervisor and Convener	:	Dr. N. Malarvizhi Professor, Department of Computer Science and Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai-600 062, Tamil Nadu, India

Based on the candidate's exposition of his thesis and his answers to the questions raised by the examiners and other participants, the Board of Examiners have resolved to recommend that the performance of the candidate in his Ph.D. Oral Examination is **Good** and declare to have **passed** his Ph.D. Oral Examination and further recommend the award of Ph.D. degree in **Computer Science and Engineering** of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the


03.09.2021
Indian Examiner


03/09/21
Subject Expert




Supervisor



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PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr. N. K. SENTHILKUMAR (Reg. No: 13RECS1034) HELD AT 11.00 A.M. ON 03.09.2021 THROUGH ONLINE MODE AT VELTECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600 062.

The Ph.D. Oral Examination of **Mr. N. K. SENTHIL KUMAR (Reg. No: 13RECS1034)** on the thesis **"SENTIMENT CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORKS AND BI-DIRECTIONAL LONG SHORT TERM MEMORY WITH PART OF SPEECH TAGGING"** has been conducted on 03.09.2021 at 11.00 A.M., through online mode using Google Meet tool.

Members Present

1. Prof. Dr. Hafizur Rahaman

Indian Institute of Engineering Science and Technology

Indian Examiner

2. Prof. Dr. M. Vinayaka Murthy

REVA University, Bengaluru

Subject Expert

3. Prof. Dr. N. Malarvizhi

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Supervisor & Convener

The research scholar **Mr. N. K. SENTHIL KUMAR** has presented the salient features of his research work. The members of the Board and audiences have posed the questions related to the subject. The questions raised by the Foreign and Indian Examiners have also been put to the scholar. The scholar has answered all the questions from the Board Members and the audiences. The scholar's performance in the Ph.D. Oral Examination is **Good**.

Based on the scholar's research work, oral presentation, clarifications and answers to the questions from the Examiners and audiences, the Board unanimously recommends to accept the Ph.D. Thesis for the award of Degree of Doctor of Philosophy in **Computer Science and Engineering** in the **School of Computing**, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to **Mr. N. K. SENTHIL KUMAR**.

1. Prof. Hafizur Rahaman

Indian Examiner

H. Rahaman
03.09.2021

2. Dr M Vinayaka Murthy

Subject Expert

M. Vinayaka Murthy

3. Dr N Malarvizhi

Supervisor & Convener

N. Malarvizhi

N. Malarvizhi