**PROJECT REPORT ON**

**GRAPH ALGORITHMS FOR VISUALIZING HIGH DIMENSIONAL DATA**

Submitted in partial fulfilment of the requirement for

the award of the degree of

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**OF**

**SASTRA UNIVERSITY**

Submitted by

**ABHINAV S V (116003002)**

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**Under the Guidance of**

**Prof. Ricard Gavaldà Mestre, PhD,**

**Catedràtic d'Universitat[Full Professor],**

**Department of Computer Science,**

**LARCA Research Group ,**

**Universitat Politècnica de Catalunya, Barcelona, Spain**

**and**

**Prof. Marta Arias Vicente, PhD,**

**Professor Agregat [Associate Professor],**

**Department of Computer Science,**

**LARCA Research Group,**

**Universitat Politècnica de Catalunya, Barcelona, Spain**

**June 2016**

**SCHOOL OF COMPUTING**

**SHANMUGHA**

**ARTS, SCIENCE, TECHNOLOGY & RESEARCH ACADEMY**

**(A University Established under section 3 of the UGC Act, 1956)**

**TIRUMALAISAMUDRAM, THANJAVUR – 613401**

**BONA FIDE CERTIFICATE**

Certified that this project work entitled “**GRAPH ALGORITHMS FOR VISUALIZING HIGH DIMENSIONAL DATA** ” to the Shanmugha Arts, Science, Technology & Research Academy (SASTRA) University, Tirumalaisamudram–613401 by Abhinav S V [116003002] in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING is the original and independent work carried out as a part of the semester abroad program (SAP), during the period February 2016 - June 2016 at Department of Computer Science, LARCA Research Group , Universitat Politècnica de Catalunya(UPC), Barcelona, Spain.

**Dr. A. UMAMAKESWARI,**

**ASSOCIATE DEAN**

**DEPARTMENT OF COMPUTER SCIENCE,**

**SCHOOL OF COMPUTING,**

**SASTRA UNIVERSITY,**

**THANJAVUR**

**INTERNAL EXAMINAR 1 INTERNAL EXAMINAR 2**

**SCHOOL OF COMPUTING**

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**TIRUMALAISAMUDRAM, THANJAVUR – 613401**

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**DECLARATION**

I submit this project work entitled “**GRAPH ALGORITHMS FOR VISUALIZING HIGH DIMENSIONAL DATA** ” to the Shanmugha Arts, Science, Technology & Research Academy (SASTRA) University, Tirumalaisamudram–613401, in partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING** and declare that it is my original and independent work carried out under the guidance of ***Prof. Ricard Gavaldà Mestre,*** PhD, Catedràtic d'Universitat [Full Professor], Department of Computer Science, LARCA Research Group, Universitat Politècnica de Catalunya, Barcelona, Spain and ***Prof. Marta Arias Vicente***, PhD, Professor Agregat [Associate Professor], Department of Computer Science, LARCA Research Group , Universitat Politècnica de Catalunya, Barcelona, Spain in the international research group [Laboratory for Relational Algorithmics, Complexity and Learning] (LARCA)

**Date:**

**Place:**

**Name: Abhinav S V**

**Reg. No.: 116003002**

**Signature:**