Notice for the PhD Viva-voce Examination

Mr Benny Thomas (Reg. No. 1445001), PhD scholar at CHRIST (Deemed to be University), will defend his PhD thesis at the public viva-voce examination on Wednesday, 4 November 2020 at 2.00 pm. The defense will be conducted online on the Webex Meeting platform.

Title of the Thesis	**:**	**Integrated Intelligent Framework for E-Learning**
Discipline	**:**	**Computer Science**
External Examiner (Outside Karnataka)	**:**	**Dr S Anbucheliyan** Assistant Professor Department of CSE Ramanujan Computing Center College of Engineering, Guindy Anna University Channai, Tamil Nadu
External Examiner (Within Karnataka)	**:**	**Dr N C Naveen** Professor and Head Department of Computer Science & Engineering JSS Academy of Technical Education (JSSATE) Uttarahalli - Kengeri Road Bengaluru – 560060 Karnataka
Supervisor	**:**	**Dr Chandra J** Associate Professor Department of Computer Science School of Sciences CHRIST (Deemed to be University) Bengaluru – 560029 Karnataka

The faculty members of the Department and the School, interested experts and research scholars of all the branches of research are cordially invited to attend this open viva.

Registrar

Place: Bengaluru
Date: 31 October 2020

ABSTRACT

E-learning is the primary method of learning for most learners after regular academics studies. Knowledge delivery through e-learning technologies increased exponentially over the years because of the advancement in internet and e-learning technologies. Knowledge delivery to some people would never have been possible without the e-learning technologies. Most of the working professionals do focused studies for carrier advancement, promotion, or improving domain knowledge. These learners can find many free e-learning web sites from the internet easily in the domain of interest. However, it is quite difficult to find the best e-learning content suitable for their learning based on their domain knowledge level. Users spent most of the time figuring out the right content from a plethora of available content and end up learning nothing.

A framework using machine learning algorithms with Random Forest Classifier is proposed to address the issue, which classifies the e-learning content based on its difficulty levels and provides the learner the best content suitable based on the knowledge level. The framework is trained with the data set collected from multiple popular e-learning web sites. The model is tested with real-time e-learning websites links and found that the e-contents in the web sites are recommended to the user based on its difficulty levels as beginner level, intermediate level, and advanced.

Keywords: E-Learning, Bag of Word, TF-IDF, POS tagging, Random Forest Classifier, Convolutional Neural Network, SGD Classifier, Bloom's Taxonomy, SCORM, Recommended Systems