Sunu Fathima T.H

Career Objective

Looking for an opportunity to secure the position of a Teacher where I can employ all my skills for the benefit of the Institution. Well skilled, educated individual who works hard to achieve good progress in my career through all my best subject knowledge and great teaching efforts.

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Academic Background

Course	Institution	Year	Percentage
M.Tech (Information Technology-Software Systems)	School of Engineering, CUSAT	2016-2018	9.38 - CGPA (89.11 %)
B.Tech (Information Technology)	Toc H Institute of Science & Technology, Arakkunnam, Ernakulum, Kerala.	2011-2015	83.48%
Higher Secondary (XII)	St. Philomena's H.S.S, Koonammavu, Varapuzha, Ernakulam, Kerala. Board of Kerala	2011	95.42 %
S.S.L.C (X)	V.V.B.H.S.S, Aluva, Ernakulam, Kerala Board of Kerala	2009	95.00 %

Technical Skills

Software skills   : C, Java, Android Programming.

Subjects of Interest : Design & Analysis of Algorithms, Computer Organization, Computer Graphics

Professional Experience

1. Worked as Guest lecturer at School of Engineering, CUSAT from 05/07/2018 to 23/11/2018 and taught the subjects Computer Graphics, Computer Graphics lab and Logic Design and Electronics Circuits Lab for B.Tech IT students.
2. Worked as Assistant Professor at Cochin University College of Engineering, Kuttanadu from 27/02/2020 to 30/03/2022.
3. Working as Assistant Professor at School of Engineering, CUSAT from 31/03/2022 onwards.

Academic Projects and Seminar

1. Mini Project: Student Information System (B.Tech)

Front End: VB.NET

Back End: SQL Server

The Project titled Student Information System provides the facility of storing mark details and attendance details of students of an institution. The faculties can view, edit and delete academic details of a particular student whereas the student can only view his record by login into the system.

2. Mini Project: Online Crime Reporting And Management (B.Tech)

Front End: JSP

Back End: MySQL

Online Crime Reporting and Management is a web based project which helps people can directly report incidents without visiting a police station or facing any formalities. There are facilities to report different crimes like murder, pick pocketing, etc. and an appointed authority will allocate officials to investigate on it after prioritizing.

3. Mini Project: Mobile App For Anti-Theft Security System (B.Tech)

Front End: JAVA

Back End: SQLite

Mobile App for Anti-Theft Security System is an Android App which can be operated from a mobile phone to prevent thefts. Whenever we miss our phone, a text message from a prefixed number will delete the important private details from the phone. Also the location details will be sending to the fixed mobile phone. The phone will be locked automatically.

4. Main Project: Remote File Handling Application (B.Tech)

Front End: JAVA

Back End: MySQL

Remote File Handling Application provides a system for backup and restore for our mobile device there by saving the memory and securing files. Files from mobile device can send to a server through Wi-Fi connection and restored back whenever required.

5. Seminar: Brain Computer Interface (B.Tech)

Brain Computer Interface enables connection between human brain and a computer device by directly extracting neural signals through EEG. Thus it reduces human efforts to communicate with a computer or any other external devices.

6. Seminar: 3D Simulator with Brain Computer Interface and Virtual Reality (M.Tech)

3D Simulator with Brain Computer Interface and Virtual Reality (SBCI) extends the use of a Brain Computer Interface for patients to experience their lost sense. Using this system, blind people can see things, deaf can hear sound etc. It is mostly used for rehabilitation of disabled people.

7. Seminar: Real Time Text Speller based on Eye Movement Classification using Wearable EEG Sensors (M.Tech)

This system helps people having problem with muscle movement to spell texts in real time. A Neural interface connected with person's head directly measures brain activity and converted into signals recognizable by computer machine. This will trace the location of required letter on the virtual keypad available on screen and print it.

8. Main Project: Big Data Classification Based on Distributed Fuzzy Decision Trees (M.Tech)

Front End: Python

Back End: Apache Spark

Distributed Fuzzy Decision Trees can classify big data with less time and high accuracy. There are two stages. First stage fuzzy partitioning generates fuzzy partition for each continuous attribute on training data. Second stage FDT Learning generates a fuzzy decision tree from the training data by using Gini Index as the impurity measure.

Awards and Achievements

- Top Scorer in M. Tech in Information Technology (Software Systems) from Cochin University of Science & Technology, 2018.
- Secured First Rank in B.Tech Degree Examination (Information Technology) held by Cochin University of Science & Technology in the year 2015.
- UGC NET

Publications

- Published an International Journal on "A Comparison of various Classification Techniques in Big Data Mining," International Journal of Computer Application, Issue.8, vol.2, March-April 2018.
- Published a paper on "Big data Classification based on Distributed Fuzzy decision Trees," Proceedings of ICAEEC-2019, IIIT Allahabad India, 31st May – 1st June, 2019, SSRN Digital Library, 2020.

Training

- Participated & Completed Microsoft India & SAP India led Faculty Development Program on "Artificial Intelligence" organized in collaboration with ASAP Kerala.

Personal Details

Date of Birth: 29/04/1993

Linguistic Knowledge: English, Malayalam

Reference

- Dr. Philip Samuel, Information Technology, SOE, CUSAT, Ph. No: 9495467252
- Dr. Binsu C Kovoor, Information Technology, SOE, CUSAT, Ph. No: 9847788551

Declaration

I hereby declare that the above furnished information is true.

Date:

Place: Signature of the candidate