VIT®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Three Day Online Workshop on Quantum Computing and Data Analytics using Python

7th to 9th February 2024

Organized by

School of Computer Science and Engineering (SCOPE)

Vellore Institute of Technology

Vellore – 632 014

Organizing Committee

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Coordinators:
Dr. R. Kanagaraj, Assistant Professor
Department of Information Security
SCOPE
Dr. A. Kumaresan, Assistant Professor
Department of Database Systems
SCOPE

Contents of the Programme

- Quantum basics
- Quantum Gates
- Quantum Algorithms
- Advanced Algorithms
- Introduction to Data Analytics and Python
- Clustering
- Random forest
- Regression
- Support Vector Machines

Target Audience:

Faculty members, Research Scholars, UG and PG students

Registration:

The participants are requested to register for the workshop through the following link

https://events.vit.ac.in/

Registration fee (Including GST):

- **Faculty Members** : **Rs. 600/-**
- **Research Scholars** : **Rs. 300/**
- **UG/PG Students** : **Rs. 250/-**

Last date for registration: 05.02.2024

About VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. Our Memoranda of Understanding with various international universities are our major strength.

About SCOPE

The school has one of the best infrastructure including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices, employ innovative approaches in programming and problem solving, and create Large Scale Software Systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies.

The School has formed the following technical departments:

- Department of Analytics
- Department of Computational Intelligence
- Department of Database Systems
- Department of Software Systems
- Department of Information Security
- Department of IoT

About Workshop

This Workshop aims at providing a forum for members of the research and academy community. It enables the participants to understand the recent technologies in Quantum Computing, Machine Learning and its applications. Quantum computing techniques have formed an explosion of research methodology in quantum Data science. The sessions include both the discussion of Quantum computing and Machine learning techniques in real time applications and the challenges to apply practically. The sessions also include hands on training on domains like Quantum Algorithms, Optimization, Predictive modeling and Machine Learning Techniques using Open source programming language Python.

Speakers

Dr. Boby John
Senior Technical Officer
 Operations Research Unit
Indian Statistical Institute
Bangalore

Mr.Thanikachalam M
DATA Scientist / DATA Engineer
Tata Consultancy Service
Chennai

Dr. J. V. Bibal Benifa
Assistant Professor
Indian Institute of Information Technology
Kottayam

For further details contact
Email: kanagaraj.r@vit.ac.in,
        kumaresan.angappan@vit.ac.in
Mobile: +91-9894417279
        +91-9894234358

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