



Vidya Vikas Education Trust's

Universal College of Engineering

Gujarati Linguistic Minority Institution

"B+" NAAC Accreditation

Issue 11 | Edition 2 | June 2019



BITS *G* **B**YTES

An Initiative By

ITSA

Department of Information Technology

#Satyavachan

"Do not Figure out
big plans at first,
but, begin slowly,
feel your ground
and proceed up
and up."

- Swami
Vivekananda

Highlights

- 1 | Technical Article
- 2 | Non-Technical Article
- 3 | List of Seminars
- 4 | Upcoming Events

DESIGNED BY:

Ms. Mudra Doshi

► Technical Article

Key advantages of open source technology



Open-source technology has developed as an adequate strategy for overcoming expansion cycle time. It decreases drafting struggles, ensures nature, and cut down the costs for individual kinds of software, especially operations foundation software such as language-processing tools compilers, platforms, supervisors, and middleware.

Since the code is free, it's solely a subject of changing it to supplement the functionality what the marketing folks require. You can take a percentage of open source software and squeeze it to satisfy your requirements according to your suitability. There are several other advantages of open source technology. I have compiled a listing of these advantages so that you can take full advantage. Let's check one by one.

• Customization character

Open source technology supplies companies the advantage of adjusting the program to produce clarifications that satisfy their special requirements. They can add or delete employment and change it to the requirements of the customers. This gives businesses the ability to make changes and enrichment.

However, it is important to note that while performing corrections to the source code. It is necessary to guarantee that the reforms are presented back upstream. If you enhance missing, it commences to complexities while improving the project.

• Interpreted collaboration

Open-source development encourages the distribution of plans and opinions with members the users of associations who have related requirements, but who also may have different technology procurement and funding policies. This cross-conception can reach new penetrations and discoveries that would not have happened as quickly externally these alliances.

- **Powerful support ability**

Open-source development methods strength the ability and stores in their areas, thereby providing core professional to cooperate for improving software character. Thus, we can say open-source users are compensated by accelerated dilemmas after defects have recognized.

- **Open-Source technology is Group-Oriented**

Open-source software is the cooperative based technology. It utilizes the grassroots strategy of web development and app development. As such, no one has the capability to regulate the software. But, still, the open source technology improves the competing business, enabling you to produce a magnificent significance of selection with reasonable pricing. Along with these, Updates and add-ons are considerably more prevalent with open-source software results because of the group of open source professionals.

- **Cost**

Between the acquisition price of the program or software itself, the excessive price of necessary virus security, support charges, ongoing upgrade expenses and the costs connected with staying secured in, the exclusive software gets more out of your trade than you apparently even understand. You can get the better profession at a fraction of the price.

From the business viewpoint, the acquisition value of software is the one factor; total cost of use is what actually means. Other elements being similar, the answer with a lowering total cost of purchase is normally the common popular one.

- **Interoperability**

Open source software is much reliable at complying with open source software models than the established program. If you appreciate concurrence with other industries, machines, users, and you don't require to be restricted by established data arrangements, open source software is unquestionably the idea to go.

Ref: <https://opensourceforu.com/2017/12/key-advantages-of-open-source-technology/>

- *Ms. Mudra Doshi*

Deep learning and medical devices

When it comes to the S-Detect for Breast, the algorithm is not designed to learn in real time -- that is, it's not collecting data from every new image it evaluates and using it to update itself. And, in any case, the algorithm can't "learn" until a biopsy of any given image is conducted and the final diagnosis -- cancerous or benign -- is recorded. However, the developers can choose to update the program with more data at a later time and apply the updated algorithm to newer models of the ultrasound system.

Currently, no peer-reviewed research on the accuracy of the algorithm (as compared to traditional breast exams) has been published, although Kim noted that a paper, involving collaborators from the Samsung Medical Center in Seoul, South Korea, is in the works and will likely be published within the year. The company is also exploring the idea of a deep-learning algorithm for other types of ultrasound exams, such as thyroid imaging.

In the meantime, without having used this particular device, Schacht pointed out that the use of big data in diagnostics is "an important concept."

"The use of computers and big data to learn and understand more about breast lesions that are seen on imaging has been an important part of breast imaging for decades, going back to the times where computer-aided detection really began in mammography," he said. "I think there's a long history of using data available on images within breast imaging to advance the field."

Ref:<https://www.popsci.com/how-deep-learning-technology-could-be-next-step-in-cancer-detection>

- *Ms. Mudra Doshi*



Non-Technical Article

Life is not an algorithm!

Life is not an algorithm,
 A steps to follow,
 A condition to satisfy,
 A selection to make,
 An iteration to happen,

Life is an undefined sea,
 It is open and beautiful,
 It is free and clear,
 It is unbiased and vast,
 It is un-coloured and infinite ♥

Life is not an algorithm,
 It does not have rules to follow,
 It does not have ethics to handle,
 It does not have restrictions to
 adhere,
 It does not have maturity to
 come.

Why to be mature in life?
 What do you achieve after this?
 Peace? money? Respect?
 Happiness?
 None ! Why not to be kids then !
 Simple. Adorable. Happy and
 Naughty.

Why to wear formals for
 interviews?
 Why to wear ethnic for
 wedding?
 Why to wear black to show
 hate?
 Why to wear white to show
 peace?
 Are these Colours defines
 purpose of life?
 Why not to be colourful
 everyday ?

It's ok not to be graduated at
 22,
 It's ok not to be well earner at
 25,
 It's ok not to be married at 27,
 It's ok not to have a kids before
 30,
 It's ok not to retire at 60,
 Life is long unrestricted
 learning journey,
 Which has no rules to it ♥

- *Mr. Prathmesh Churi*

List of Seminars from January 2019 to April 2019

Sr. No.	Date	Topic	Resource Person
1	5/2/2019	Cloud Computing & its services	Mr. Mohan Pawar
2	6/2/2019	Software Testing	Mr. Nilesh Jain
3	23/2/2019	Working Application of Mobile using Hand-off strategy	Mrs. Bhavika Jhanjhanjari
4	26/2/2019	Path to open source contribution	Mr. Sachin Gadagi
5	20/3/2019	Assembly Programming Language 8086	Mr. Anil Gupta

Glimpses of Seminar:-



Upcoming Events

STTP Workshop from 24th June 2019 to 28th June 2019

PROFILE OF IT DEPARTMENT

Our course aims at producing competent Computer Engineers who are not only experts in the field of IT Engineering but also competent in the other fields that are essential requirements for being a good Engineer. Our faculties are qualified, professionally experienced and have excellent visibility of the trends in the field of IT Engineering. Faculty members have well-rounded knowledge and experience in imparting knowledge, not only in the core discipline of IT Engineering but also related disciplines and sub-disciplines such as Artificial Intelligence, Cloud Computing, BigData.

SCHEDULED DATE AND TIME

24th June 2019 to 28th June 2019
(Monday to Friday)

LAST DATE OF REGISTRATION

20th June 2019

PATRON

DR. J. B. PATIL
(Campus Director, UCoE)

CONVENER

MRS. YOGITA MANE
(HOD, IT Department)

CO-ORDINATORS

JIGAR CHAUHAN
(Assistant Professor, I.T. Department)
+91 76665 50461

ALLAN LOPES
(Assistant Professor, I.T. Department)
+91 90044 86811

PROFILE OF THE INSTITUTE

Universal College of Engineering was established in 2012 as a part of Vidya Vikas Education Trust. It is affiliated to University of Mumbai. The College is accredited with B+ Grade in 1st Cycle of accreditation by NAAC. With its unique location just off the Western Express Highway, Universal offers a spacious & serene learning environment away from the congestion & pollution of the city at a distance of just 20 minutes from Dahisar Check Naka. Our college offers Bachelor's degree course in Civil, Computer, IT, ETRX, and EXTC. The campus boasts of spacious classrooms, state-of-the-art presentation equipment, an expansive library, intimate tutorial rooms, courtyards, the literati cafe, and above all, the serenity of the environment around. The campus is purpose-built for higher education and allows for blending of outdoor learning with intensive indoor class work.



CONVEYANCE

Complimentary pick-up and drop facility will be available from and to Borivali, Mira Road, Vasai and Thane
(Pick-up at 8 am)



Indian Society For
Technical Education



UNIVERSAL

Universal College of Engineering

Accredited with B+ Grade by NAAC

in association with

Indian Society for Technical Education

invites you to participate in

ISTE Approved STTP on

**DATA ANALYTICS
USING PYTHON,
UNDERSTANDING MACHINE
LEARNING &
NATURAL LANGUAGE
PROCESSING**

from 24th June to 28th June 2019

ORGANIZED BY:

Department of Information Technology

Universal College of Engineering

Near Bhajansons Dairy & Shankeshwar
Punyadham Jain temple, Next to Kaman River,
Kaman Bhivandi Road,
Vasai (E) - 401 212.

PROGRAM CONTENT

DAY-1 & DAY-2

Data Analytics using Python

- Python Basics on python idle.
- Python Framework for data science- Anaconda, ipython/Jupyter.
- Read in data from different sources and clean data.
- Work with Python data science packages.
- Tabulation and pivoting of Python data on day-2 ending with Quiz on each day.

DAY-3

Learning different machine learning algorithms like

- Classification-logistic, K-Nearest Neighbors, Support Vector Machine, KernelSVM, Naive Bayes, Decision tree, random forest.
- Regression-Simple linear, multiple linear, polynomial, support vector, decision.
- Tree, random forest. The day will conclude with Quiz.

DAY-4 & DAY-5

Association Rule Learning-Apriori followed by Natural Language Processing-NLTK. The day will end with Quiz followed by Hands-on ML on last day.

Certificates will be issued by ISTE to all the participants

FEE DETAILS

For Academic Staff

Rs. 3,000 (including food)

For Students

Rs. 800 (excluding food)

*Food Rs.1,000 extra

RESOURCE PERSONS

Mr. Richard Fredrick Joseph

Experience: 10 Years

Certifications: Star Python Certification, Rational Function Tester (IBM), Rational Functional Rose (IBM)

Ms. Mukesh Yadav

Experience: 5 Years

Area of Specialization: Natural Language Processing, Machine Learning, Sentiment Analysis, Data Mining.

Technology Expert: Python, R, Perl, MATLAB, LATEX, Oracle SQL, Microsoft SQL Server, C++, HTML, CSS, JavaScript.

HOW TO APPLY



Scan the QR code to open the online registration form.

<https://forms.gle/uTjvY71xKGoGoCHS6>

Interested candidates may register with the program by sending the attached registration form duly filled to:

The Convener,

Department of Information Technology,
Universal Engineering College, Near
Bhajansons & Punyadham, Kaman
Bhiwandi Road, Vasai, Thane- 401212.

along with the applicable registration fees.

Payments can be made by Demand Draft/Cheque in favour of ' Universal College of Engineering ' payable at Mumbai.

DATA ANALYTICS USING PYTHON, UNDERSTANDING MACHINE LEARNING & NATURAL LANGUAGE PROCESSING

REGISTRATION FORM

Name: _____

Designation: _____

Institution/Organisation: _____

ISTE Member: YES/NO:

ISTE Membership No.: _____

Address: _____

Phone: _____

Email: _____

Details of Payment

DD/Cheque No.: _____

Date: _____

Bank: _____

Date

Signature of Participant