



Dr. Vishwanath Karad

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TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

School of Computer Engineering & Technology

Report on the webinar on

“Big Data Analytics - Real time case studies” (Hands on session)

Date: 7th August 2020, Friday

Organized for: T.Y. B.Tech students of Professional Elective 1 (Big Data Analytics) of trimester T9

Attended by: 100 students.

Organized by: Prof. SujaPanicker, Prof. Pranali Kosamkar, Prof. Viresh Chapte.

Report prepared by: Aditi M. Chavan and Dhanashree Patil

About the Guest Speaker:

Mr. Yogesh Murumkar is a Computer Engineer and has completed his Graduation and Post-Graduation from Pune University. He has worked for Capgemini India Pvt Ltd for 4 years and worked for clients like Barclays and S-Pankki bank. He is a Data Science and Big Data Analytics enthusiast with more than 10 years of experience including IT experience and teaching/training experience and is a Corporate Trainer for Machine Learning, Blockchain, Data Science and Big Data Analytics Trainer. He has successfully trained more than 300 participants for Global Certification in Data Science and Big Data Analytics by DELL EMC. He is also a Microsoft Certified Python Developer.

Agenda of Webinar:

- Data v/s Information
- Types of data
- Creating a word cloud using python libraries

- Using pyttsx3 python library to convert text to speech
- Creating a Jarvis voice assistant using the pyttsx3 and Speech recognition library in python
- A mini project on review scrapping (getting-real time data) from an e-commerce website Flipkart using python in the PyCharm IDE
- A demonstration and discussion for the deployment of any application on cloud for the users to use
- PyCharm installation guide

About the session:

Mr. Murumkar began the session by highlighting the difference between Data and Information , also elaborating on the types on data i.e. Structured, Semi Structured, Quassi-Structured, unstructured data.

Further he switched to practical hands-on demonstration of ‘Plotting a word cloud using python libraries’. He introduced the word cloud library which is a data visualization technique used for representing text data in which the size of each word indicates its frequency or importance. Next was the code snippet for converting text to speech using pyttsx3 library. The pyttsx3 module supports two voices first is female and the second is male which is provided by “sapi5” for windows.

With the introduction of word cloud and pyttsx3 libraries, he then demonstrated the Voice Assistant – Jarvis. Jarvis responded to various voice commands like opening search tabs on browser, playing music, sending mails, etc. Jarvis can be programmed to perform desired actions as per the user.

The session also included the demonstration of a mini project- Review Scrapping (getting-real time data) from Flipkart-an e-commerce website using PyCharm IDE. For the desired search entry into the search bar, the code scrapped out the corresponding reviews (Customer name, ratings of product, review) from the e-commerce site. It used jinja2 templating and the backend support was MongoDB. Students could do hands on simultaneously as the code was already deployed on cloud. As the topic included Cloud deployment, Mr.Murumkar explained the deployment process of any application onto cloud.

The webinar concluded with a Question-answer session, wherein several students enthusiastically put forth their queries and these were resolved by Mr.Murumkar to the students’ satisfaction.

The webinar was quite exploratory and informative as text-to-speech conversion and data scrapping are quite extensively used in most of the projects undertaken by students. It was no surprise, that the students expected the webinar to last longer. This webinar was a beginner's guide towards Big Data Analytics in Real time cases. Through this webinar many students got inputs of getting started with voice assistant driven IOT projects, data mining and analytics projects. Practical knowledge, helpful nature and great encouragement by Mr.Murumkar was well received by all students. All students unanimously conveyed their interest in attending more such sessions in future.

Screenshots:



Zoom Meeting You are viewing Yogesh Munziker's screen View Options

Types of Data

- 1) Structured Data
eg mysql, oracle, ms excel
- 2) Semi-Structured Data
eg xml, json, databases
- 3) Quasi-Structured Data
eg click stream data
- 4) Unstructured Data

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Participants (24)

Find a participant

- Pranali Koonkar (Co-host)
- Yogesh Munziker (host)
- Karth Gupta (Co-host)
- Sujay Parikh (Co-host)
- Vishal Chugh (Co-host)
- Aditi Chavan
- Aditya Maheshwari
- Alakh Rajput
- ADWAI Manoj
- Aneel Kumar Bhatnagar
- Anish Kumar
- Anish
- Anshuman Desai
- anj
- Annu Chhabra
- arjun sharma

Zoom Meeting toolbar: Mute, Stop Video, Security, Participants, Chat, Share Screen, Record, Live

Windows taskbar: Type here to search, Taskbar icons, System tray: 12:04 PM, 6/7/2020

12:36 PM

... 4G VoLTE

Close

Participants (100)

Search



suja panicker (me, co-host)



Yogesh Murumkar (host)



Kartik Gupta (co-host)



Pranali Kosamkar (co-host)



Viresh Chapte (co-host)



Aditi Chavan



Aditya Maheshwari



Afroz Chakure



Aishwarya .



Invite

Report

Mute All

The image shows a code editor interface for a project named 'firstFlask'. The main editor area displays the code for 'app.py', which includes imports for Flask, flask_cors, requests, BeautifulSoup, and urllib.request. The code defines a Flask application and two routes: a home page route and a review route. The terminal window at the bottom shows the command 'python app.py' being executed, with output indicating the environment is production, debug mode is on, and the server is running on http://127.0.0.1:8000/.

```
from flask import Flask, render_template, request, jsonify
from flask_cors import CORS, cross_origin
import requests
from bs4 import BeautifulSoup as bs
from urllib.request import urlopen as ureq

app = Flask(__name__)

@app.route('/', methods=['GET']) # route to display the home page
@cross_origin()
def homePage():
    return render_template("index.html")

@app.route('/review', methods=['POST', 'GET']) # route to show the review comments in a web UI
@cross_origin()
def index():
    if request.method == 'POST':
```

Run: app

- Environment: production
- WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
- Debug mode: on
- Restarting with stat
- Debugger is active!
- Debugger PIN: 191-149-864
- Running on <http://127.0.0.1:8000/> (Press CTRL+C to quit)

127.0.0.1 -- [07/Aug/2020 13:21:34] "GET / HTTP/1.1" 200 -

4: Run 6: TODO 9: Version Control Terminal Python Console Log Analyzer SQL Query Illuminated Cloud Anonymous Ape

Illuminated Cloud: Your evaluation will expire in 28 days. (2 minutes ago) 12:1 CRLF UTF-8 4 spaces Git: master Python 3.7 (y)