

Title: Workshop on Data Science Using Python (Online Mode)

Organized by: MCA Dept., SCET, Surat.

Financially Sponsored by: DST-GUJCOST

Technically Sponsored by: IEEE SPS, Gujarat Chapter

Total number of Participant (IEEE/Non-IEEE) – 249 Registrations

Date of Event: 18th and 19th December 2020

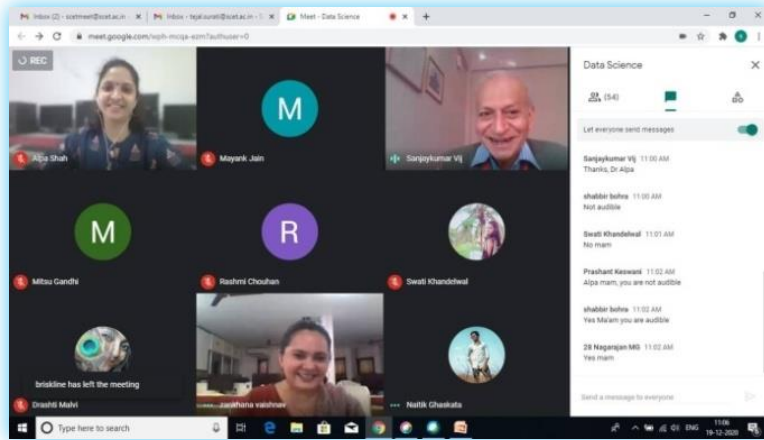
Venue of event: Online Mode through Webex and Google Meet

Description (Max: 500 words):

Data Science is a multi-disciplinary field that uses methods, processes, algorithms and systems to extract knowledge and insights from structured and unstructured data. This means that data science helps Artificial Intelligence figure out solutions to problems by linking similar data for future use.

Evolved from the study of pattern recognition and computational learning theory in artificial intelligence, machine learning explores the study and construction of algorithms that can learn from and make predictions on data. These analytical models allow researchers, data scientists, engineers, and analysts to "produce reliable, repeatable decisions and results" and uncover "hidden insights" through learning from historical relationships and trends in the data. MCA Department of Sarvajanic College of Engineering & Technology, Surat, has planned to organize this workshop on Data Science using Python.

Event Photographs - 3-4 photographs (2MP atleast)



QUESTIONS

$$B=1 \quad \frac{2PR}{P+R}$$

- ▶ Are you ready for interview for position of Data Scientist?
- ▶ Why this is the best time to be Data Scientist?
- ▶ Is Confusion Matrix same as Error Matrix?
- ▶ Is F_1 -score necessarily a Harmonic Mean?
- ▶ Is Data Science same as Data Mining?
- ▶ How is IoT related to Data Science? Are they both related?
- ▶ What is more important for a Data Scientist: Fast Delivery or Extreme Accuracy?
- ▶ Do different industries need Data Scientists with different skill sets?
- ▶ Are you Data Scientists?

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A screenshot of a Jupyter Notebook interface. The notebook is titled "SCET_Data_Analysis". It contains code for analyzing categorical and quantitative variables. The code includes:

```

Categorical Variable
In [8]: categorical_data.select_dtypes(include=["object"]).keys()
print(categorical)
Index(['Date', 'Symbol', 'Series'], dtype='object')

Quantitative Variable
In [9]: quantitative_data.select_dtypes(include=["float64", "int64"]).keys()
print(quantitative)
Index(['Open', 'High', 'Low', 'Close', 'VWAP', 'Volume', 'Turnover', 'Trades', 'Deliverable Volume', 'Deliverable'], dtype='object')

group by will apply function on all numeric columns
In [10]: data.groupby(by=["Symbol"]).count()
Out[10]:
Symbol
HKTCHX 2481 2481 2481 2481 2481 2481 2481 2481 2481 2481 2481 2481 2481 2481 2481
  
```

The right side of the screen shows a list of participants in the meeting, including Alpa Shah, Mayank Jain, Rashmi Chauhan, and others.

Online meeting interface showing a presentation slide titled "MACHINE LEARNING ENGINEERING" and a grid of participant avatars.

MACHINE LEARNING ENGINEERING

The presentation slide contains a flowchart illustrating the Machine Learning Engineering process. It starts with "DATA SOURCES" (Internal/External, Structured/Unstructured) leading to "DATA ACQUISITION & STORAGE". This is followed by "DATA PREPARATION" (Cleaning, Feature Engineering, Feature Selection, Feature Scaling) and "MODEL TRAINING & EVALUATION" (Model Selection, Hyperparameter Tuning, Model Evaluation). The final stage is "DEPLOYMENT & MONITORING" (Model Deployment, Model Monitoring, Model Retraining). A feedback loop labeled "Model Drift" connects the monitoring stage back to the preparation stage.

Participant avatars (names and initials):

- 170_010_Rachit (R)
- 28_Nandhan MG (N)
- Aakanksha Singh (A)
- Ajay Parmar (A)
- You (Y)
- Amsha Khosaraiya (A)
- Anshika Mishra (A)
- Anurima De (A)
- Dhaval Mahatta (D)
- DIKSHAN SHAH (D)
- De Chhaya Patel (D)
- Forum Sharek (F)
- Gayatri Kapadia (G)
- Hemal Patel (H)
- Nitesh Vora (N)
- Jayara Ahuja (J)
- Kaushika Pal (K)
- kriti matha (k)
- Mamta Shah (M)
- Mayank Jain (M)
- megha polshernala (m)
- Nishtha Patel (N)
- Pinal Desai (P)
- Pratiksha Sal (P)
- Rashmi Chouhan (R)
- Samaril Shah (S)
- Samaril Shah (S)
- scott emmet (S)
- shabir Sohra (S)
- shiv Chevli (S)
- shivani varu (S)
- Suryanarayana (S)