

Application

Ref: AVCOE/Comp/2020-21/ 93

Date: 13/05/21

To,
The Principal,
AVCOE,
Sangamner.

Sub: Permission to Organize Webinar on "Machine Intelligence".

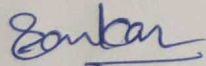
Respected sir,

Department of Computer Engineering would like to organize Non-Credit Course Workshop/ Webinar on "**Machine Intelligence**", on 15th May 2021 for the M.E. Computer Engg. Students. For the same we are having Resource Person **Mr. Avinash Erande (Sr. Data Scientist – TCS Pune)**.

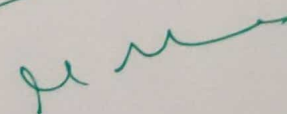
Kindly permit for the same.

Thanking you.

Your's truly



S.K. Sonkar
Asst. Prof.
Comp. Engg. Dept.,

permitted to conduct




Amrutvahini College of Engineering, Sangamner
Department of Computer Engineering



Resource Person:-
Mr. Avinash Erande
Sr. Data Scientist
TCS Pune

Organizes
Non Credit Course Workshop
on

“Machine Intelligence”

Date: 15/05/2021



Dr. S.K. Soukar
Co-Ordinator

Prof. R.L. Pankar
HOD

Dr. M.A. Verkhate
Principal

Avinash Erande (Data Scientist)

Pune, India, 411014

+919561912961

avinasherande321@gmail.com

SUMMARY

Data Scientist with 5+ years of experience executing data-driven solutions to increase efficiency, accuracy, and utility of internal data processing. Experienced at creating data regression models, using predictive data modeling, and analyzing data mining algorithms to deliver insights and implement action-oriented solutions to complex business problems. Looking to use my Bachelor of Computer engg and Master of Computer engg in to manage statistical modeling and machine learning and data-related solutions at your organization.

SKILLS

- R, Python
 - Machine Learning
 - Deep Learning
 - Amazon AWS
 - Tableau, PowerBI
 - Big Data Technologies
 - Data Mining & Analytics
 - MS Azure
 - SQL, NoSQL
 - Keras, Tensorflow, Scikit-Learn
 - Apache Spark, Kafka
 - Hadoop Ecosystem
 - ETL
 - Statistics, Data Modeling & Optimization
 - HTML,XML
-

EXPERIENCE

Data Scientist

Tata Consultancy Services(TCS, Pune)

Making Omni-Channel Customer Analytics Platform.

May. 2021 to Present

Pune,India

- Data collection, Data Preprocessing and Exploratory Data Analysis for Transactional Data.
- Model Design, Training Dataset and Testing Outcome.
- Deployment of model and monitoring pipeline.

Data Scientist

Collabera Technologies(ZS Associates)

Sep. 2019 to April. 2021

Pune,India

- Doing predictive analytics on pharmaceutical sales data.
- Making dashboard for sales analysis using python
- Making decks for analysis and reporting.
- Retrieve data from multiple database and combine it in one.
- Analyzing the data to identify patterns and trends
- Interpreting the data to discover solutions and opportunities
- Responsible in developing system models, prediction algorithms, solutions to prescriptive analytics problems, data mining techniques, and/ or econometric model.
- Communicate the results with operations team for taking best decisions and collect data needs and requireme

- nts by Interacting with the other departments.
- Application of various machine learning algorithms and statistical Modeling like decision trees, text analytics, natural language processing (NLP), supervised and unsupervised, regression models, social network analysis, neural networks, deep learning, SVM, clustering to identify Volume using Scikit-learn package in python.
- Performed data cleaning and feature selection using MLLib package in PySpark and working with deep learning frameworks such as Caffe, Neon.
- Understanding the business problems and analyzing the data by using appropriate Statistical models to generate insights.
- Developed NLP models for Topic Extraction, Sentiment Analysis.

Data Scientist

Northcorp Software Pvt Ltd (Reliance Jio)

Sep. 2018 to Sep. 2019

Navi Mumbai, India

- Analyze and consolidated data across the business and made effective planning decisions.
- Analyze client's business requirements and processes through document analysis, workshops, and workflow analysis.
- Understanding of data gathering, inspecting, cleansing, transforming and modeling.
- Analysis using mining, evaluation and visualization
- Use of R, Python, Machine learning for predictive analytics, Tableau for reporting and SQL for query reporting.
- Analytical model development using python and RShiny
- Analytical process building using big data technologies.

Senior Data Analyst

Spire Infotech

Jun. 2016 to Aug. 2018

Hyderabad, India

- Using R, Python and machine learning for data pipelines to get predicted output and doing analysis on that data.
- Provided thorough documentation of all BI applications and processes to be used in event of equipment.
- Use of framework like tensorflow, keras, scikit-learn etc
- Working knowledge of supply chain domain, optimization, retail and statistical modeling etc

PROJECTS

1) Novo Nordicks Pharma Sales Prediction and analysis (Pune)

This Project includes Sales prediction ,Analysis and Text classification for client Novo Nordicks which is pharma client and have different number of drugs and medicines.

Responsibility : To build a sales prediction model using machine learning algorithms and also doing sentiment analysis using NLP. Final Business goal is to increase sales and revenue and do proper analysis on the data available.

Tools : Python, MongoDB(Pymongo), AWS Sagemaker, Tableau, NLTK etc.

2) Loan Sanctioning Prediction System and analysis (Hyderabad)

The data provides us a taste of working on datasets from insurance company. This is classification problem. The data is generated monthly basis.

Responsibility : Build a predictive model that is useful for company to know whether a person is able to get loan or not. The role is to apply PCA(principle component analysis) and Naïve Bayes Classification with R.

Tools: R studio, Machine learning algorithm, SQL

3) Fraud Detection in Credit Card Transactions (Hyderabad)

Fraud model is used to know if a particular transaction is fraudulent transaction. Historical data having details of fraud and non fraud transactions can be used to build a classification model that would predict chances of fraud happening in a transaction.

Responsibility: As a Data analyst, I have built a classification model for this problem like logistic regression or decision trees. Use of predictive analytics using different machine learning algorithms. Python is used as a programming language.

Tools: pycharm, python, pandas, numpy, SQL etc.

4) Electric device automation using ML and IoT (Hyderabad)

This project is about saving electricity power in offices. We used predictive model, IoT (Internet of Things) and Azure Machine Learning for this. In detail linear regression is used for prediction and also Raspberry pi3.

Responsibility: As a data person, I have to build model using techniques like linear regression for prediction purpose. MS Azure for storing dataset. Led.py, cam.py, regression.py are used for implementation. In csv file date and time are attributes for prediction.

Tools: Python, MS Azure, Raspberry pi3, Predictive modeling, Machine learning etc

5) Ecommerce Products Sales Forecasting System (Hyderabad)

The data provides information on the historical sales data of number of stores of ecommerce company, each of which having various departments. The goal is to predict the department-wise sales of each store using the historical data spanning across number of weeks.

Responsibility: As Data analyst I have to work on timeseries dataset, data manipulation and machine learning in R.

Tools: plyr, forecast and reshape package in R, R studio, ARIMA Model, SQL, MS Azure.

6) Building Convolutional Neural Networks for Sentence Classification (Navi Mumbai)

We show that a simple CNN with little hyperparameter tuning and static vectors achieves excellent results on multiple benchmarks.

Responsibility: I design the text classification pipeline. It consists of following components: Training text, Feature vector, Labels, Machine learning algorithms Predictive model

- The result of each convolution will fire when a special pattern is detected.

- By varying the size of the kernels and concatenating their outputs, We allow to detect patterns of multiple sizes.

Tools: Python, keras, pandas, sklearn, CNN, Hyperparameters, NLP, AWS.

7) Real Time Weather Prediction and analysis (Hyderabad)

Predicting future weather using real time. Realtime spark streaming is used with ELK stack for data processing.

Responsibility: As a data scientist I have to do apache Kafka streaming through ELK stack. The project is for to know weather conditions in future & according to that

they takes their crop to increase their production.

Tools: Apache Kafka, ELK stack, pycharm for python.

8)CPU Usage Prediction for Jio Applications (Navi Mumbai)

Finding out CPU usage using machine learning algorithm. Kafka streaming is used for real time data processing.

Responsibility: Building regression model using algorithm and predict output values.

Tools: Gradient Boosting Regressor, Random Forest Regressor, Apache Kafka, Machine learning, python, tableau.

EDUCATION

Master's: Computer Engineering
University Of Pune

Aug. 2017 to Aug. 2019
Pune, India

Diploma: Post Graduate Diploma in Big Data Analytics (PGDBDA)
CDAC Pune

Feb. 2018 to Aug. 2018
Pune, India

Bachelor's: Computer Engineering
University Of Pune

Aug. 2011 to Jun. 2016
Pune, India

CERTIFICATIONS

1) IBM SPSS Modeler Professional V18

2) Udemy eCommerce Analytics and Customer Segmentation

LANGUAGES

English, Hindi, Marathi

ADDITIONAL INFORMATION

LinkedIn : <https://www.linkedin.com/in/avinash-erande-433bb8b7/>

Skype ID : eravi19

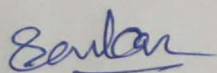
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Available upon request

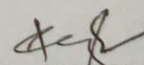
AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER
COMPUTER ENGINEERING DEPARTMENT

Organizes
Online Webinar on
"Machine Intelligence"
Program Schedule

DATE TIME	EVENT DETAILS	TIME
Date: (15/05/2021)		
10:000 AM TO 10:02 AM	Introduction and Preamble to Program	02 minutes
10:03 AM TO 11:06 AM	Welcome-HOD Preamble	03 minutes
10:07 AM TO 10:12 AM	Principal Speech	05 minutes
10:13AM TO 10:15 AM	Introduction to Chief Guest	02 minutes
10:16 AM TO 11:30 AM	Session by Resource Person	75 minutes
11.30 To 11:40 AM	Break	10 minute
11:41 AM TO 01:00 PM	Session by Resource Person	80 minutes
01:00 PM TO 01:05 PM	Vote of thanks	05 minutes
Total Time		182 minute



Dr.S.K.Sonkar
Program Coordinator



Prof.R.L.Paikrao
HEAD OF THE DEPARTMENT
(COMPUTER ENGINEERING)
AMRUTVAHINI COLLEGE OF ENGINEERING
SANGAMNER - 422608

Amrutvahini College of Engineering, Sangamner
COMPUTER ENGINEERING DEPARTMENT

Date: 15/05/2021

Webinar Report

Date: 15th May. 2021

Class: M.E. Students

Topic: Non Credit Course Workshop on "Machine Intelligence".

Resource Person: Mr. Avinash Erande, Sr. Data Scientist, TCS Pune

Organized By: Dr. S.K. Sonkar

Total no. of Student Participant: 74

Total no. of Faculty Participant: (03)

Objective: Learn Basic Concepts of Cloud Computing.

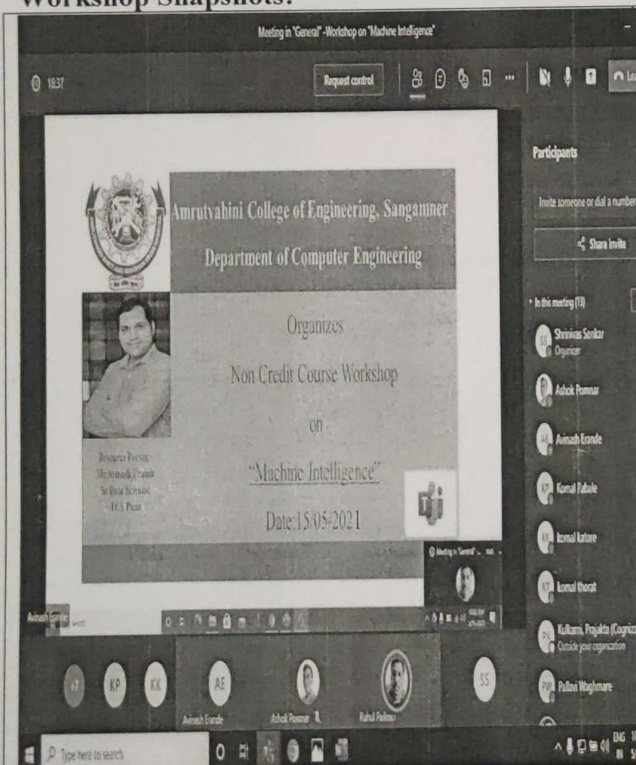
To learn Benefits of AWS Cloud Services.

To learn how to build & launch AWS EC2 instance.

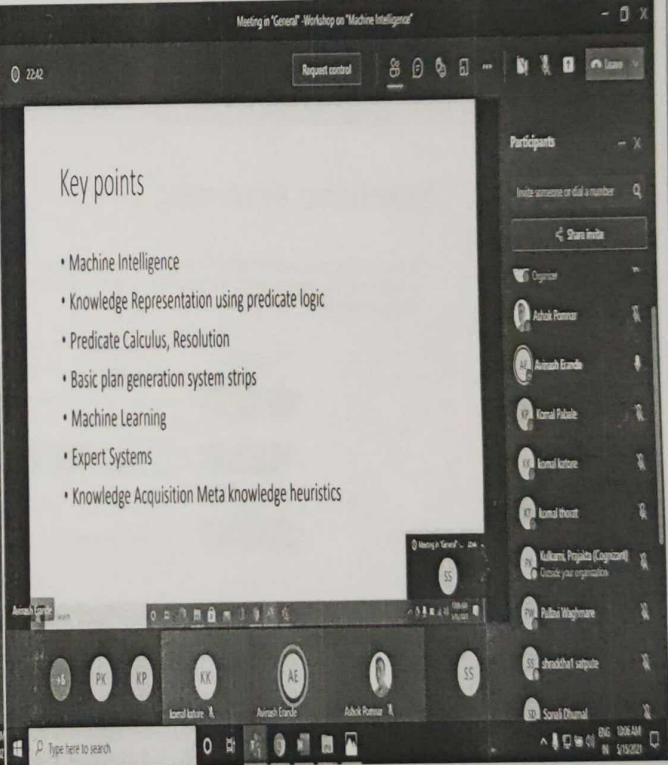
Webinar Content:

Basic Concepts of cloud Computing, Importance of Virtualization, Types of Virtualization, Introduction to AWS Cloud, why enterprises choosing AWS, features of AWS, AWS Services, EC2 instance, EC2 Template, Building and Launching VM instance.

Workshop Snapshots:



Snapshot1: Introduction of Resource Person



Snapshot2: Agenda of Webinar



Amrutvahini Sheti & Shikshan Vikas Sanstha's

Amrutvahini College of Engineering, Sangamner

- ▶ Approved by AICTE, New Delhi
- ▶ Accredited three times by NBA, New Delhi
- ▶ 'A' Grade by NAAC
- ▶ AICTE ID: 1-7576531
- ▶ D.T.E. Code : EN5162

- ▶ Affiliated to Savitribai Phule Pune University
- ▶ SPPU ID : PU/AN/Engg-024/1983
- ▶ 'A' Grade by DTE, Govt. of Maharashtra
- ▶ An ISO 9001 : 2015 Certified
- ▶ A.I.S.H.E. Code (Ref. No.) : C-41515

Best Engineering College (Professional-Rural) Award by Savitribai Phule Pune University, Pune

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Date: 15/05/2021

CERTIFICATE

This is to certify that " Mr. Avinash Erande", Sr. Data Scientist, TCS Pvt. Ltd. Pune, has conducted Webinar on "Machine Intelligence", for M.E. Computer Eng. Students on Saturday, 15/05/2021.

We are thankful to him for conducting Webinar and giving his valuable Knowledge to our students.


Dr.M.A.Venkatesh

Principal

Amrutvahini College of Engg.
SANGAMNER - 422 806
Dist.-Ahmednagar (M.S.)



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Principal
Amrutvahini College of Engg.
SANGAMNER - 422 606
Dist.-Ahmednagar (M.S.)

