

K.K.Wagh Institute of Engineering Education and Research
Hirabai Haridas Vidyanagari, Mumbai Agra Road Amrutdham, Panchavati, Nashik, Maharashtra 422003

Induction Program 2020-21

Webinar Report

K. K. Wagh Education Society's
K. K. Wagh Institute of Engineering Education & Research, Nashik
Hirabai Haridas Vidyanagari, Amrutdham, Panchvati, Nashik, Maharashtra-422003
Phone: (0253) 2512876/ 2620810, Fax: (0253)2511962
Website: www.engg.kkwagh.edu.in
(Affiliated To Savitribai Phule Pune University And Approved By AICTE, New Delhi)

**Department of Electronics & Telecommunication Engineering
in Collaboration with IETE**

Organizes
Induction Program A.Y. 2020-21
Online Webinar on
“AI ML DL - Use cases and Insights”
By
Mr. Balachandar Natarajan
IT HR Products and Analytics People Leader at Ford Motor

Mr. Balachandar Natarajan

On 26th September 2020 from 11:00 AM to 12:30 PM
— Meeting details: —
<https://attendee.gotowebinar.com/register/8404456186305754124>

Date: 26th September 2020

Time: 11:00 am

Duration: 2 hours

Resource person (with designation): By Mr. Balachandar Natarajan, IT HR Products and Analytics People Leader at Ford Motor

Topic: “AI ML DL - Use cases and Insights”

Subject (SE/TE/BE) mapped: -- BE AI

Number of attendees: 222

Attendees:

- All staff members of E & TC/Electronics department and other departments of KKWIEER
- Students of B.E, T.E, S.E E&TC and Electronics

Outcomes:

- Increased awareness of AI, ML and DL
- Features of AI, ML and DL
- Applications of AI, ML and DL in various fields

SUMMARY:

E & TC department of K. K. Wagh Institute of Engineering Education & Research, Nashik in collaboration of IETE Nashik subcenter organized Induction Program A.Y.2020-21.

A webinar on “AI **ML DL** - Use cases and Insights " By Mr. Balachandar Natarajan, IT HR Products and Analytics People Leader at Ford Motor was organized on 21st September 20 at 11:00 AM. The Webinar started with a Warm Introduction of Mr. Balachandar Natarajan.

Mr. Balachandar Natarajan is a Well established tech savvy global product and large programs leader for HR Skill team and Cyber Security expert with successful track record of business transformation, he has been working With Ford IT since 2007 & overall IT for 18+ years and is Currently accountable for managing 14 HR Products teams across globe managing multiple technologies, Data Analytics, Security, Middleware, Cloud transformation, ERP with AI/ML/DL Based solutions, he is Serving Information Security community through ISACA Chennai Chapter as "Board of Director" since July 2017. • Leadership, Technology, Security, Trainer & Speaker.

Students actively participated in the webinar as he explained various aspects recent trends in. He explained Use of Artificial Intelligence in making of “Morgan” movie trailer and making of an expensive painting. Explained in detail definitions and features of AI, ML and DL. He further explained how to embrace AI and how to enter AI Bandwagon. Also gave introduction of ML & DL learning techniques/algorithms. Discussed various industrial use cases and risks in AI, ML, and DL. Suggested various Courses and Certifications related to AI, ML, DL and AI, ML and DL Position Descriptions. An insight of DevOps and DevOps Eco System was also discussed. Lastly briefed about Hype cycle for emerging technologies in 2020.

Participants actively participated in the session. The questions were addressed by the speaker. At last the webinar ended with vote of thanks.

Screenshot of the webinar

How to embrace AI?

- Embrace AI not as an innovation initiative but as part of the core strategy for the company
- Consider how AI and Composite Architectures can work together to help their companies solve business challenges

<https://medium.com/swlh/gartner-2020-hype-cycle-for-emerging-technologies-whats-in-it-for-ai-leaders-a66eb4768b1>

Webinar On "AI ML DL - Use cases and Ins..."
Webinar ID: 530-813-251
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Wanna to enter AI Bandwagon?

- Strong grasp of mathematics (i.e., linear algebra, calculus, probability and statistics, multivariate calculus, graph theory, matrices, and optimization methods)
- Strong experience with programming languages (e.g., C, C++, Java, Python) and frameworks (e.g., TensorFlow)
- Understanding of the basic concept of automation and how it relates to computer science
- Understanding of AI principles and techniques
- Ability to write algorithms for finding patterns and learning
- Strong data analytics skills

<https://www.isaca.org/journal/archives/2018/Volume-6/Pages/is-artificial-intelligence-a-career-path-for-you.aspx>

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Balachandrar Natarajan

Courses and Certifications

S.No	Name/Link	Price	Classroom/Online	Time
1.	ML - Andrew Ng - https://www.coursera.org/learn/machine-learning	Free/Paid for certificate (9k-5000)	Online	Self Driven 11 Weeks
2.	Hands on Python for DS and ML - https://www.udemy.com/machinelearning/	Rs. 500-800	Online	1
3.	PG Diploma in Machine Learning and AI - UpGrad and IIT-B	Rs. 2.65L-2.85L	Online/Live Sessions	11 months
4.	PG Program - Artificial Intelligence & Machine Learning - Great Lakes	Rs. 3L - 4L	Online Videos + Mentored Learning	9 months
5.	PG Program - Data Science and Business Analytics - GreatLakes		Online Videos + Mentored Learning	7 months
6.	https://www.jicawacademy.com/online-analytics-training/	Start from Rs. 45K	Online Videos + Mentored Learning	
7.	PGP in AI/ML from BITS Pilani https://bits-pilani-wip.ac.in/certification-programmes/pgp-ai-ml.php	Rs. 2L	Online with written exam	11 months
8.	Machine Learning course in NPTEL site. https://nptel.ac.in/courses/106101103/	Rs. 1100 (for exam if we need certification)	Online Videos/Weekly assignments	8 weeks
9.	Business Analytics and Big Data - IIM Kashipur	Rs. 82,000	LIVE Online training and assignments, Certificate exam at the end. Industrial expert training on Hadoop and Big data.	6 months
10.	scala-and-spark-for-big-data-and-machine-learning - by Jose Portilla https://www.udemy.com/scala-and-spark-for-big-data-and-machine-learning/	Rs. 500	Online Videos - Currently in to 3rd Week	8 weeks
11.	https://olympus.greatlearning.in/dashboard	Free	Online	Flexible
12.	https://padhai.onefourthlab.in	Rs. 5000 and Rs. 1000	Affordable course on "Deep Learning"	4 Months

Balachandrar Natarajan

ENG INTL 11:54 26-09-2020

Balachandrar Natarajan

greatlearning Power Ahead

Home Browse Courses Premium Courses Live Sessions GL Community

My Courses

Pandas - Series and Dataframes-4 14m

Pandas - Accessing and modifying-4 16m

Pandas - Combining Dataframes-4 25m

Pandas - Functions-4 22m

Pandas - Saving and Loading dataframes-4 11m

pandas_example.ipynb

Python - Functions, Objects and Classes

User Defined Functions 21m

Balachandrar Natarajan

ENG INTL 11:55 26-09-2020

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Attendees: 237 of 1001 (max)

Attendees (226)

Staff (11)

NAMES - ALPHABETICALLY

Search kani

Polls (0/0)

Questions

Handouts: 0 of 5

Chat

Me (to Balachandrar Natarajan - Private):

11:27: Answers from students

Me (to Balachandrar Natarajan - Private):

[Type message here]

To: Balachandrar Natarajan (O...)

Send

Webinar On "AI ML DL - Use cases and Insu..."

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Waiting for screen share.

All Courses

Deep Learning

★★★★★ (138)

589 Lessons | ₹5,900.00

DEEP LEARNING

FEB 2019

All Courses

Foundations of Data Science

★★★★★ (408)

406 Lessons | ₹5,900.00

DATA SCIENCE

ADHAI ONE SERIES

Windows taskbar: Chrome, Edge, File Explorer, etc.

ENG 11:57 26-09-2020

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Dashboard

Attendees: 231 of 1001 (max)

Attendees (220)

Staff (11)

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Polls (0/0)

Questions

Handouts: 0 of 5

Chat

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To: Balachandrar Natarajan (O...)

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Skills gained from AI Training

- Domain knowledge—Research or business related
- Visualization—Seeing the story in the data
- Data governance—General oversight, including ethics and security
- Engineering—Understanding the HW, SW and Storage Capabilities available and how to utilize it

<https://www.isaca.org/Journal/archives/2018/Volume-6/Pages/is-artificial-intelligence-a-career-path-for-you.aspx>

Windows taskbar: Chrome, Edge, File Explorer, etc.

ENG 12:07 26-09-2020




Balachandrar Natarajan

THE 8 PRINCIPLES

Ethical Purpose and Societal Benefit	Accountability	Transparency and Explainability	Fairness and Non-discrimination
Safety and Reliability	Open Data and Fair Competition	Privacy	AI and Intellectual Property

Windows taskbar with icons for File Explorer, Chrome, Edge, and others. System tray shows ENG INTL, 12:24, and 26-09-2020.



Balachandrar Natarajan

Why are we moving faster?

Amazon shopping portal development team could push the site changes through CICD for every...

CI - Merge changes often with great emphasis on testing automation ; CD : Release new changes to your customers quickly

- A. 1 Hour
- B. 11.7 Seconds
- C. 5 Minutes
- D. 30 Minutes

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 ▶ Audio
 ▶ Dashboard
 ▶ Attendees: 211 of 1001 (max)

Attendees (200) Staff (11)

NAMES	
VIKAR BARKAIE	
Yogesh Risodkar	
Kanishka Thakur	
Shruti Malode	
Siddhi Wanzkhade	

All All All All

Search

▶ Polls (0/0)
 ▶ Questions
 ▶ Handouts: 0 of 5
 ▶ Chat

12:23
<https://forms.gle/hJzCvidEBXan8Esh6>
 Me (to All - Entire Audience):
 12:33 Feedback link:
<https://forms.gle/zJQdsHJMJu8tQRSMo8>

[Type message here]

To: All - Entire Audience Send

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Balachandrar Natarajan

DevOps Eco System

```
graph LR; subgraph Code; G[GitHub]; N[Nexus]; A[AccuRev]; end; subgraph Build; B[Gradle]; Ba[Bazaar]; end; subgraph Scan_Test [Scan & Test]; S[SonarQube] --> C[Checkmarx]; C --> J[JUnit]; J --> F[FOSSA]; S --> QA[QA]; end; subgraph Deploy; D[Stage]; end; Code --> Build; Build --> Scan_Test; Scan_Test --> Deploy;
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Attendees: 209 of 1001 (max)

Attendees (198)

Staff (11)

NAMES - ALPHABETICALLY

Vaishnavi Jaonkar

Vaishnavi Kudhekar

Vandana Rohokale

Vikas Barkale

Yogesh Risodkar

All

All

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Invite

Search

Polls (0/0)

Questions

Handouts: 0 of 5

Chat

12:23

Me (to All - Entire Audience):

12:33: Feedback link:

<https://forms.gle/hJzCvIdEBXan8Esh6>

<https://forms.gle/zJQdsHMJusfQRSMo8>

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To: All - Entire Audience

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26-09-2020