



Directorate of Faculty Development Center
Jawaharlal Nehru Technological University Kakinada

Dates
17th August, 2020
to
21st August, 2020

Global One Week Online Faculty Development Programme on Data Science Applied in Industry

Registration Link: <https://tinyurl.com/yxgtc7sk>

Chief Patron



Prof M Ramalinga Raju
Hon'ble Vice Chancellor of JNTUK

Patrons



Prof Ch Satyanarayana
Registrar of JNTUK



Prof GVR Prasada Raju
Rector of JNTUK



Prof V Ravindranath
OSD to Hon'ble VC of JNTUK

Distinguished Speaker



Jothi Periasamy
Learning Facilitator,
MIT CSAIL & MIT Sloan ,USA

Coordinator



Dr S Chandra Sekhar
Assistant Professor of CSE, UCEK, JNTUK

Convener



Prof V Srinivasulu
Director, Directorate of FDC, JNTUK

Schedule of the Programme

Date: 17th August, 2020
Time: 10 AM to 1 PM IST

Day 1: Artificial Intelligence Applied in Real-World Applications

- Welcome Note
- AI Defined
- How to Create Intelligence Artificially
- Type of AI
- AI Driving Factors
- AI Skill Matrix
- AI Technologies
- AI Social Impacts and Benefits
- AI Applied in Industry
- Enterprise AI Framework

Industry Use Cases

Health
Consumer
Energy

Date: 18th August, 2020
Time: 10 AM to 1 PM IST

Day 2: Model Engineering & Advanced Computing in Python

- Model Engineering Defined
- Working Python Pandas
- Working Python Numpy
- Working Python Matplotlib
- Working Python Scipy
- Assignments
- quizzes

Technologies

Python Anaconda
Jupyter Notebook
Tensorflow
Scikit Learn
Kubeflow
Kubernetes

Date: 19th August, 2020
Time: 10 AM to 1 PM IST

Day 3 : Machine Learning (ML) Applied

- ML Defined
- ML Type
- ML Models & Building Blocks
- ML Implementation Framework
- ML Use Cases Implementation - LAB 1
- ML Use Cases Implementation - LAB 2
- Assignments
- quizzes

Lab

Python Anaconda
Jupyter Notebook
Tensorflow
Scikit Learn

Date: 20th August, 2020
Time: 10 AM to 1 PM IST

Day 4 : Deep Learning (DL) Applied

- DL Defined
- Difference Between ML and DL
- DL Models & Building Blocks
- DL Implementation Framework
- DL Use Cases Implementation - LAB 1
- DL Use Cases Implementation - LAB 2
- Assignments
- quizzes

Lab

Python Anaconda
Jupyter Notebook
Tensorflow
Scikit Learn

Date: 21st August, 2020
Time: 10 AM to 1 PM IST

Day 5 : Data Science and Data Engineering

- Data Science Defined
- Data Engineering Define
- Big Data and IIoT
- Working With Large Data Sets
- Working Sensor Data
- Working With Machine Data
- Assignments
- quizzes

Technologies

Spark
HADOOP
Apache Kafka

CHIEF SUBJECT MATTER EXPERT: INSTRUCTOR



Jothi Periasamy | Chief Architect | AI & Data Engineering

Co-Founder
DeepSphere.AI, Inc.,
Palo Alto, CA

Artificial Intelligence Learning Facilitator
MIT CSAIL & MIT Sloan
Boston, MA

Head of Artificial Intelligence
Experfy, Harvard Innovation Lab Startup
Harvard University, Boston, MA

"Jothi...Ultimately, the Artificial Intelligence workshop gave the participants a new vision about their future as adult leaders and productive citizens with AI in the center of a new digital era..."

Fiona Ma
State Treasurer | State of California
California Treasurer's Office

- 17+ years of management consulting and end-to-end AI (ML, DL, RPA, NLP) experience with Deloitte, E&Y, and KPMG
- Over 50+ clients across industries: Retail, Consumer, Health, Energy, Oil & Gas
- Teaches AI at MIT – Head of AI, Architect at Experfy, Harvard Innovation Lab
- Co-innovates industry solution along with SAP America
- Published on finance, AI, Big Data, IIoT, Cloud, and SAP Appliances
- Delivered many research projects on market
- Globally recognized as a keynote speaker. Spoke at 50 conferences
- Recently invited by Prime Minister's office of Dubai, Malaysia, and Montreal
- Stanford alumni



DeepSphere.AI
Enterprise AI and IIoT for Analytics