



Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

Prof. A.S. Deshpande B.E.,M.Tech., Ph.D.
REGISTRAR

Phone: (0831) 2405468
Fax : (0831) 2405467

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CIRCULAR



Sub: Karnataka Science and Technology Academy (KSTA), Department of
Science and Technology , Government of Karnataka
Ref: KSTA/VTU/AI-Training/2019-20 dated 9-12-2019

We are pleased to inform you that Karnataka Science and Technology Academy (KSTA), Department of Science and Technology, Government of Karnataka is organizing three day workshop on " Artificial Intelligence and Robotics" during 16-18 December 2019 (Monday – Wednesday) for PG Students , research scholars and young teaching faculty of Colleges and Universities across the State.

Principals of all affiliated and constituent colleges of VTU are requested to circulate the information to all the concerned members of your Institute, interested faculty members to take part in the event.

Last date for registration for the training workshop is 14th December 2019.

For more details see the brochure attached.


13.12.19
REGISTRAR
VC
13/12/19


To,

The Principals of all Affiliated and Constituent Colleges of VTU, Belagavi

Copy to:

The Special Officer, CNC, VTU, Belagavi for uploading in VTU website.



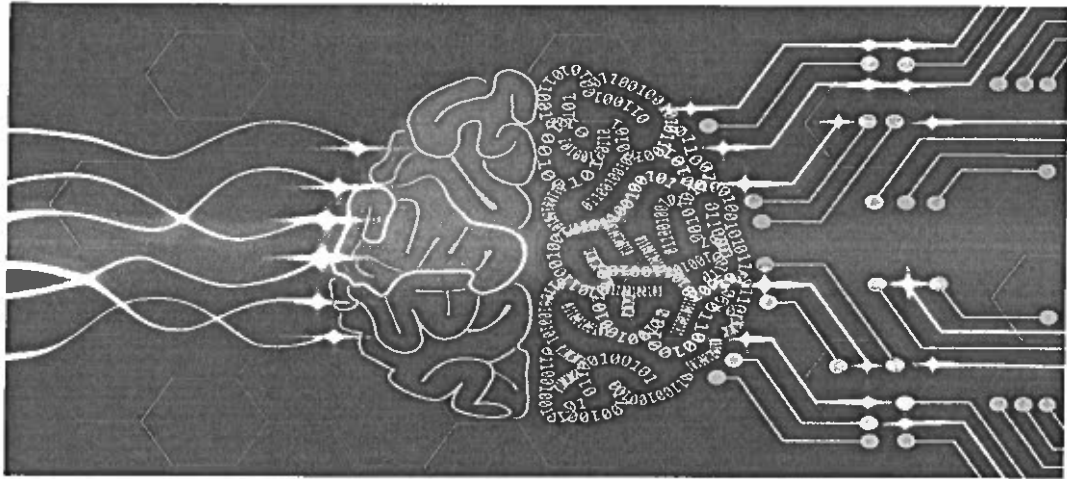
KARNATAKA SCIENCE AND TECHNOLOGY ACADEMY [KSTA]

Department of Science and Technology, Govt. of Karnataka

Prof. U R Rao Vijnana Bhavan, College of Horticulture Science Entrance, GKVK Campus,
Major Sandeep Unnikrishnan Road, Vidyaranyapura Post, Bengaluru - 560097

Three Day Workshop on "ARTIFICIAL INTELLIGENCE AND ROBOTICS"

December 16-18, 2019 [Monday, Tuesday and Wednesday]



Convenor

Dr. A M Ramesh
Chief Executive Officer

Coordinator

Mr. V K Srinivasu
Scientific Officer

Phone: +91-80-29721549; 1550 | Email: ksta.gok@gmail.com | www.kstacademy.in





ABOUT OUR ORGANIZATION

Karnataka Science and Technology Academy (KSTA) is an autonomous organization under the Department of Science and Technology, Govt. of Karnataka, which was established in September 2005 under the Chairmanship of distinguished Space Scientist Padma Vibhushan Late Prof. U R Rao, Former Chairman, ISRO/Secretary, DOS, GoI. Prof U R Rao chaired KSTA till August 2017, while Padmashree Late Dr. S K Shivakumar, Former Director, URSC, ISRO, Govt. of India Chaired KSTA from August 2017 to March 2019. Eminent scientists, well-known educationists and senior administrators are members of KSTA. Dr. H Honne Gowda, Special Secretary (Technical), DST, Govt. of Karnataka/MD, KSTePS is the Member Secretary of KSTA.

ABOUT THE WORKSHOP

Artificial Intelligence (AI) is a science and a set of computational technologies that are inspired by the ways people use their nervous systems and bodies to sense, learn, reason and take action. Artificial Intelligence has been predicted to be the most in-demand job in the coming years. According to IDC, the total spending on products and services that incorporate Augmented Reality and /or Virtual Reality concepts will soar from 11.4 billion as of 2017, to almost 215 billion by the year 2021. This is great news for AI career aspirants as the demand for such IT professionals will reach the sky in the coming years. AI training program will help you learn the basics of modern AI as well as some of the representative applications of AI.

The proposed workshop will enable one to easily get a kick start in this encouraging field.





OBJECTIVES OF THE WORKSHOP

With the growing demand for AI in a broad range of industries, the proposed program is well suited for a variety of disciplines. The main objective of the workshop include:

- To develop Artificial Intelligence & Machine Learning experts to solve business problems in organization using Artificial Intelligence & Machine Learning technologies.

WHO SHOULD PARTICIPATE?

- B.E./M.Tech students; B.Sc/M.Sc Students; Research Scholars, Young Teaching Faculty in the Science & Engineering Field.
- An understanding of the fundamentals of python programming & basic knowledge of statistics.
- Professionals who want to gain expertise in Artificial Intelligence algorithms and who wants to work in machine learning or artificial intelligence.
- Experienced professionals who would like to harness Artificial Intelligence in their fields to get more insight.
- Professionals aspiring to be an Artificial Intelligence Engineer or Machine Learning Engineer.

REGISTRATION

- **Registration Fee: Rs. 500/- (Includes Breakfast, Working Lunch, Tea & Snacks)**

Account Name:
Karnataka Science and Technology
Academy
Account No:64001018807;
IFSC Code:SBIN0009045

Kindly fill in the registration forms along the transaction amount paid online by typing the below given link in google.

https://docs.google.com/forms/d/e/1FAIpQLSc-Abr43WplBhCWmNg83kRaYSgab3vHldDhHVUNRJSZQaPcBQ/viewform?usp=sf_link



PROGRAM SCHEDULE

09.30 - 10.00 : Registration
10.00 - 11.00 : Inauguration
11.00 - 11.30 : Tea/Coffee Break

PROPOSED AI TOPICS

DAY 1 : 16/12/2019

1. Basics of AI and Machine Learning
2. Data Visualization Techniques in Machine Learning
3. Data Pre-processing in Machine Learning
4. Unsupervised Learning

DAY 2 : 17/12/2019

1. Supervised learning
2. Model Evaluation and Selection
3. Artificial Neural Network
4. Reinforcement Learning
5. Robotics

DAY 3 : 18/12/2019

1. Written Quiz Competition
2. AI Hands-on Training

VALEDICTORY

04.00 - Valedictory and Prize distribution

Note:

In order to receive certificate of participation, a participant has to obtain a minimum of 40% marks in the quiz



QUIZ COMPETITION

December 18, 2019 @
10.00

Prizes:
1st Prize : Rs.3000/-
2nd Prize : Rs.2000/-
3rd Prize: Rs.1000/-



Karnataka Science and Technology Academy (KSTA)
Department of Science and Technology, Government of Karnataka



Three day Workshop On

“Artificial Intelligence and Robotics”

Date: December 16-18, 2019 (Monday, Tuesday & Wednesday)

Program at a Glance

Sl. No.	Date	Time	Topics/Sessions	Resource Experts
Day 1 : 16-12-2019 (Monday)				
16-12-2019	10:00 am –11:00 am	Breakfast followed by Inauguration		
	11:00 am –12:15 noon	Basics of AI and Machine Learning	Dr. Uday Shankar Puranik Mentor, Atal Innovation Mission Bengaluru	
	Tea Break: 12:15 pm – 12:30 pm			
	12:30 pm – 1:45 pm	Unsupervised Learning	Dr. S. N. Omakar Chief Research Scientist, Dept. of Aerospace Engineering, IISc Bengaluru	
	Lunch Break: 1:45 pm – 2:30 pm			
	2:30 pm –3:45 pm	Data Pre-processing	Dr. Jaya Sreevalsan Nair Associate Professor, IIITB Bengaluru	
	Tea Break: 3:45 pm – 4:00 pm			
	4:00 pm –5:15 pm	Data Visualization Techniques in Machine Learning	Dr. Mahadevaiah Professor Dept. of Computer Science and Engineerig, Govt. Engineering College, Bengaluru	
Day 2 : 17-12-2019 (Tuesday)				
17-12-2019	10:00 am – 11:15 am	Supervised Learning	Dr. Partha Pratim Talukdar Assistant Professor, CCDC, IISc Bengaluru	
	11:15 am –12:30 pm	Model Evaluation and Selection	Dr. Pradipta Biswas Asst. Professor, IISc Bengaluru	
	Tea Break: 12:30 pm – 12:45 pm			
	12:45 pm –2:00 pm	Agents Based Modelling	Dr. Shrisha Rao Professor, IIITB, Bengaluru	
	Lunch Break: 2:00 pm-2:30 pm			
	2:30 pm – 3:45 pm	Reinforcement Learning & Artificial Neural Network	Dr. Suresh Sundaram Associate Professor, IISc Bengaluru	
	Tea Break: 3:45 pm- 4:00 pm			
	4:00 pm –5:15 pm	Robotics	Scientist, Centre for Artificial Intelligence and Robotics, DRDO Bengaluru	
Day 3 : 18-12-2019 (Wednesday)				
18-12-2019	10:00 am-10:30 am	Written Quiz Competition at KSTA Seminar Hall		
	10:30 am – 1:00 pm	AI Hands-on Training	Ms. Apoorva H R Software Engineer, Independent Consultant, Bengaluru	
	Lunch Break: 1:00 pm-2:00 pm			
	2:00 pm-4:00 pm	AI Hands-on Training		
4:00 pm-4:30 pm	Valedictory Function followed by High-Tea			

