



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



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, Gol. 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.

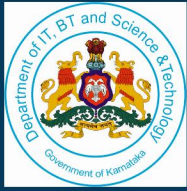
REGISTRATION

- **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-Abr43WpIBhCWmNg83kRaYSgab3vHIdDhHVUNRjSZQaPcBQ/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.4000/-
2nd Prize : Rs.3000/-
3rd Prize: Rs.2000/-
Consolation Prize: Rs.1000/-