



NAME OF THE EVENT	Workshop on Artificial Intelligence and its application to Image Recognition and Classification
ORGANISED BY	Department of Electronics and Communication Engineering, AJIET, Mangaluru
DATE	24-07-2019
Name & details of Chief Guest/Resource Person	Dr RamPrasad Poojary Associate Professor MAHE, Dubai-UAE

Description About event

The workshop on Artificial Intelligence and its application to Image Recognition and Classification was conducted for the final year ECE students of AJIET, Mangalore. The objective of the workshop was to emphasize on Artificial Intelligence and its numerous applications in various sectors.

The workshop began with inaugural function, with the faculty Mrs Prateeksha Rai N, Assistant Professor introducing the resource person to the gathering. Principal Dr, Shantaram Rai then spoke about the usefulness of workshop and how important it is to grab any opportunity provided to increase the knowledge. He also encouraged the students to participate actively in all the opportunities provided to them within and outside the campus.

The first session began with the brief introduction of Artificial Intelligence(AI), its subsets - Machine learning and Deep learning. Various areas of applications such as finance, marketing, industrial automation etc. were highlighted Machine learning focuses on the development of computer programs that can access data and use it learn for themselves. Image classification in machine learning is the key point of machine learning. Convolutional neural network (CNN) architecture of machine learning was then focused on. CNNs are a fundamental example of deep learning, where a more sophisticated model pushes the evolution of artificial intelligence by offering systems that simulate different types of biological human brain activity. It has an input layer, an output layer and various hidden layers. Some of these layers are convolutional, using a mathematical model to pass on results to successive layers. Different pre-trained CNN models, ex, Alexnet, Inception, ResNet, VGGNet and so on were explained.

The next focus of importance was the deep learning frameworks developed by different software giants, universities and researchers. Few frameworks of discussion were Tensorflow, Keras, PyTorch, Thiano and so on. An overview of importance of AI in today's innovations was given.

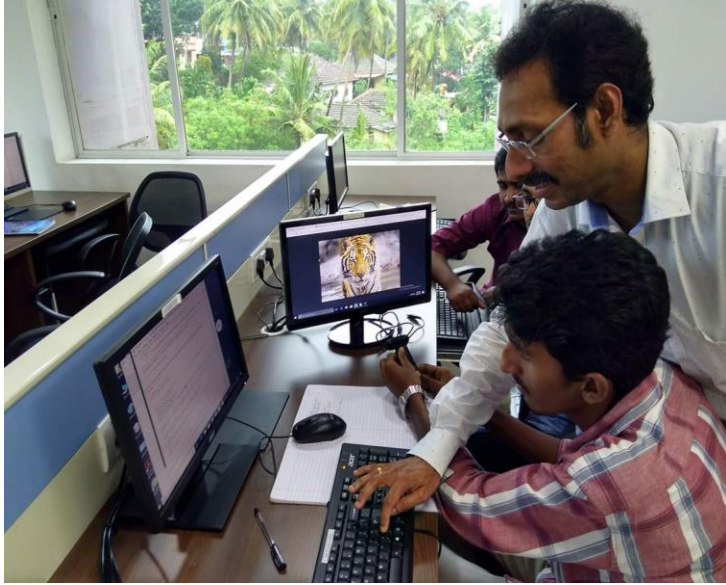
The second session of the workshop began with the introduction of Python 2 and 3IDE(Integrated development environment) for AI and ML. The session was based on image classification using Inception model. The resource person explained the importance and reasons for Python as the most popular programming language used for AI. It has a great library ecosystem. ML requires continuous data processing, and Python's libraries let you access, handle and transform data. The students were demonstrated with the examples based on python coding using Arduino Uno board in real time.

The response from the participants about the workshop is tremendously good and positive and as per the feedbacks they would want to attend such more hands-on workshops further in future. Dr Ramprasad Poojary was then thanked for his generosity by providing his valuable time with us. As a token of our appreciation and gratitude, Dr Ramprasad Poojary was felicitated with a Memento by the Principal

Students Attended	23
Faculty Attended	Mr. Raghvendra Hawaldar Mr Kiran Kumar VG Dr Gnaneswarnadh Satapathi Mrs. Arpitha K.Shetty

Photos of Workshop





(HOD, ECE)

(Principal)