

Report on International Webinar on “How Machine can Learn Physics using python as tool” organized by the Department of Physics in Collaboration with IQAC on 03/12/2022

In today's era, Machine learning, AI with deep learning have become an important field in everyday science. Python has become an easy language of coding therefore very useful in this field. The goal of this Webinar was to give a basic idea about Machine Learning, AI and Deep Learning and to know how it can be applied to real life problems as well as some physics related problems.

The webinar was conducted on 03/12/2022 from 6:30 PM to 8:30 PM. About 40 participants have joined this webinar including 15 students from our department. Prof. Dipanwita Chakraborty Bhattacharya, Assistant Professor & HOD, Department of Computer Science, Bethune College, was the resource person of the program. Currently, she is also a Scholar Scientist, Florida State University, Tallahassee, Florida, USA.

The speaker, through her talk gave us a basic idea about Artificial learning, Machine learning and Deep Learning. She also gave us some examples from different areas of Physics that require machine learning. She also showed us some hands-on example on solving a problem related to Machine Learning using Logistic Regression. Another example was demonstrated on Unsupervised Learning using Clustering with the help of Python coding language. Python language is chosen as it is very useful because of its various packages and inbuilt modules. The talk was very enlightening and has inspired many participants.

YouTube link: <https://youtu.be/D8QT98KJvpM>

