KLE SOCIETY'S
S. NIJALINGAPPA COLLEGE
Bachelor of Computer Applications

Report on "AI and ML with Python"

Event Details:

Date	: 30-06-2022 to 09-07-2022
Event	: Certificate course on "AI and ML with Python"
Duration	: 9 Days 45 Hrs (10:00 am to 4:00 pm)
Beneficiaries	: III year BCA (63 students)
Trainers	: Ms. Geetha Prasad, Trainer, Seminar Room Education Pvt Ltd.
Venue	: KLE Society's S. Nijalingappa College, Rajajinagar, Bengaluru

Brief of the Event:

Certification courses on various domains were conducted by Seminar Room Education Pvt Ltd for the BCA final year students as a part of the academic activity to enhance their technology knowledge. Seminar Room is a startup incubated & invested by Pesu Venture Labs & CoCreate Ventures which helps the students to gain academic excellence and to become passionate about the industry to build their career.

Day-1:

Certification course was conducted for 6 days. Morning session on the first day of training started with a brief introduction of the trainers and the Seminar Rooms. Then an overview of some of the key areas such as IoT, Sensor applications and Data analytics where AI and ML concepts play an important role were highlighted to the students.
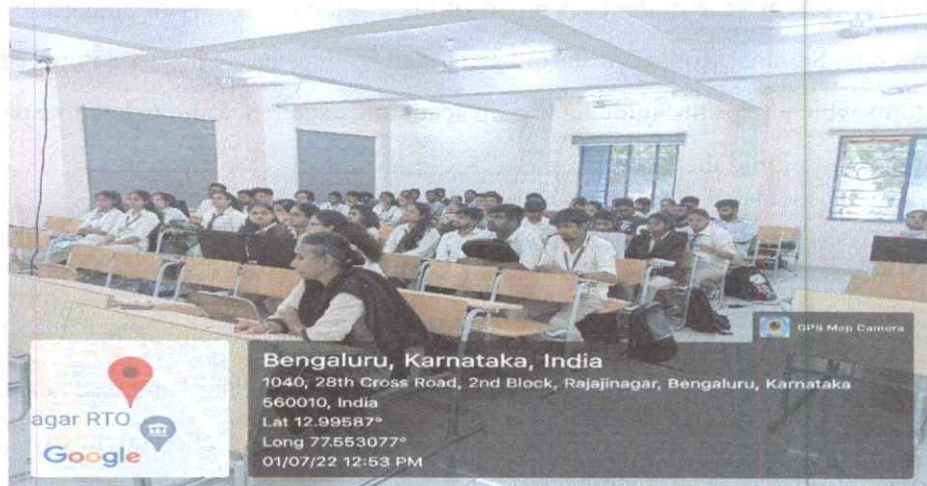
In the afternoon session examples of some of the IoT applications and how artificial intelligence is involved in them were conveyed to the students. Later how data analysis is done using the data sets was explained.
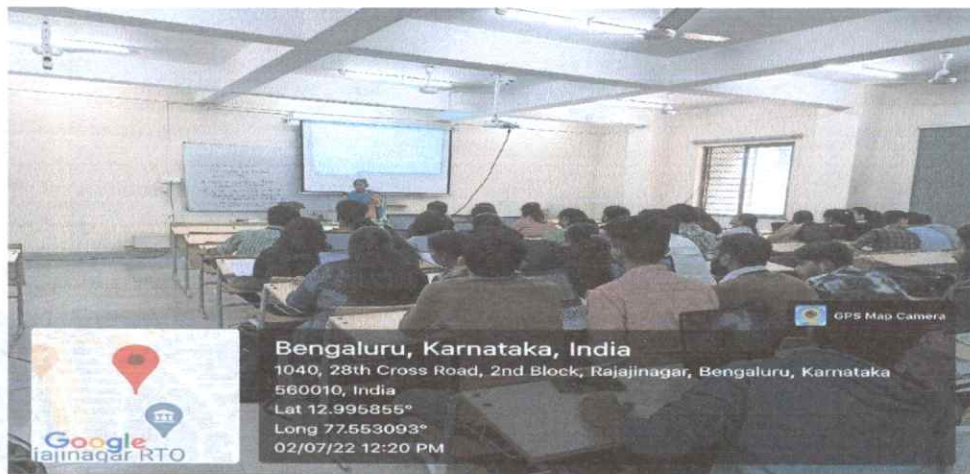
Day -2:

Training session began with an introduction about the most widely used programming language Python. Some of the advantages and applications of the Python programming language compared to other languages were discussed. Basic concepts and variables that are used in this programming language were demonstrated to the students. In the afternoon session various applications of Artificial Intelligence and Machine Learning technologies were briefed to them.
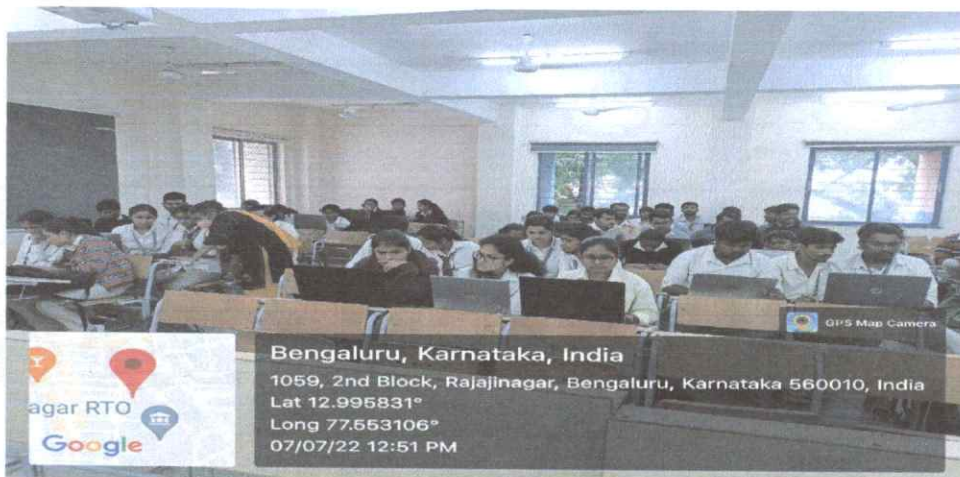

Day 3:

During the first sesion, training on creating data frames and using the data sets in the public domain was explained. Then working on these data frames was carried out by the students. Later some hands-on activities and operations on the data frames were performed in the later session of the day.

Day 4:

Visualization of different data sets and data frames using Python concepts were discussed on this day along with the basic concepts regarding different charts which are used for visualization. Usage of bar charts, pie charts, horizontal bar charts and stacked graphs were taught by the trainers. Students were given some activities to draw different graphs based on the data sets and data frames.

Day 5:

Some of the basic and important algorithms used in AI and ML were explained to the students along with their benefits and usages. Linear regression algorithm concepts and mechanisms were detailed. Examples of certain applications where linear regression is used were explained. Students were given tasks to implement data analysis using different data sets based on the algorithm.

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Day 6:

On this day, one more commonly used algorithm i.e K-Means clustering was discussed in detail to the trainees. Applications of K-Means clustering and its usage was explained to them. Finally students were assigned with some small projects to implement different applications by using the K-Means algorithm.

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