XAVIER INSTITUTE OF ENGINEERING
A SISTER INSTITUTION OF ST. XAVIER'S COLLEGE

Evolutionary algorithm: Genetic Algorithm

DATE: 07/10/2021

Event Coordinator(s)

1.Chhaya Narvekar

Student Coordinator(s)

1. Alisha Joy

Time& Place:

10.00 AM- 11:30 AM

Online Google Meet

Department: Information Technology

No of participants:46

The speaker, Dr. Ujwala Bharambe is an academician and has done her PhD in adaptive pareto ranking for geo-ontology matching. She was cordially invited to brief the students about evolutionary algorithm. The students were given a short insights about brute force algorithms, heuristics and approximation algorithms.

Optimization and search problems are the bane of every software developers existence.To tackle this issue the students were introduced to the world of evolutionary algorithm. The beauty of how the computer itself learns, evolves and dynamically adapts to the optimum solution was something that was emphasized by the speaker . The speaker then went on to elaborate over how one of the evolutionary algorithms i.e.genetic algorithms works.

Following are some of the fundamental aspects of genetic algorithm that was covered:

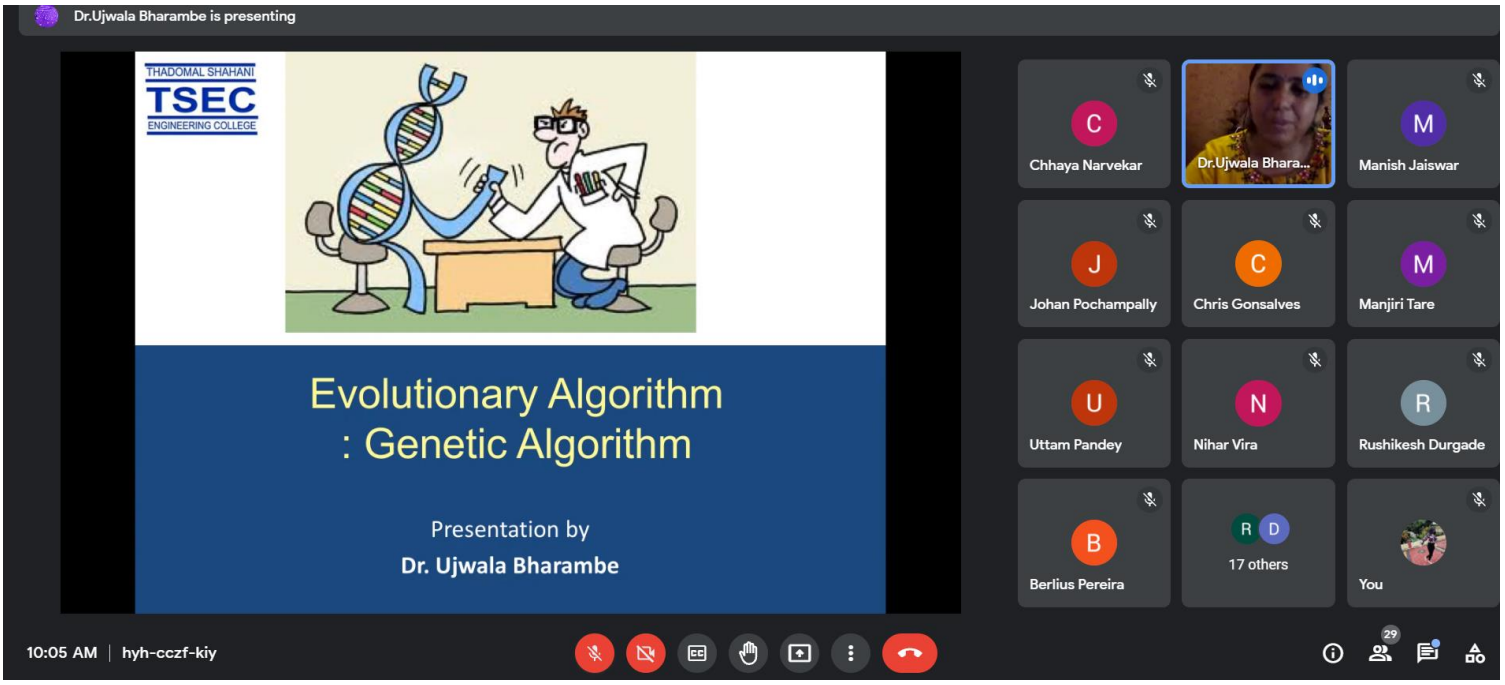
1) Initialization
2) Selection
3) Genetic operators (mutation and cross over)

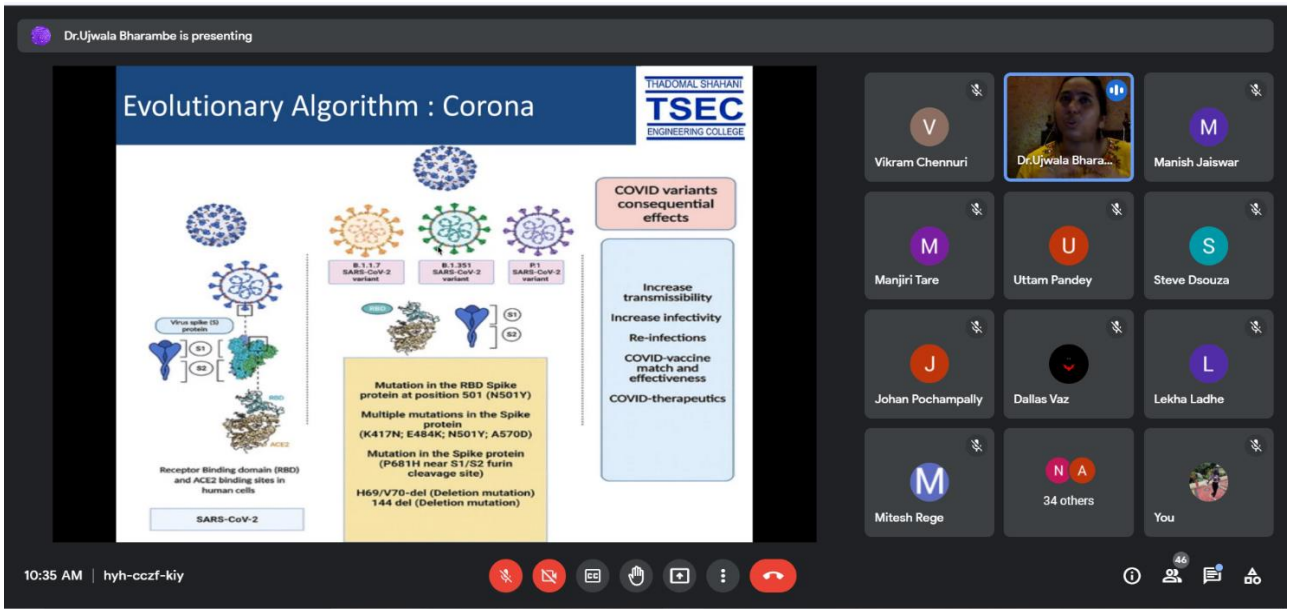
The students made a note of these points shared by the speaker and had their doubts and queries answered. The event concluded by giving a vote of thanks to the speaker.

Student Feedback and Benefits- The session started with the speaker discussing about genes in humans with some biology and then went to explain the five steps of the algorithm. The speaker urged us students to include the use of evolutionary and genetic algorithm in the final year projects. She also advised the students to consider this topic as a field of research as it may have a great scope and potential in the future. Working of all the algorithms was explained. It was an interesting and informative session.

Chhaya Narvekar
Subject Incharge

Meena Ugale
Head of Department


Dr.Ujwala Bharambe is presenting
THADOMAL SHAHANI
TSEC
ENGINEERING COLLEGE
Evolutionary Algorithm
: Genetic Algorithm
Presentation by
Dr. Ujwala Bharambe
Chhaya Narvekar
Dr.Ujwala Bhara...
Manish Jaiswar
Johan Pochampally
Chris Gonsalves
Manjiri Tare
Uttam Pandey
Nihar Vira
Rushikesh Durgade
Berlius Pereira
17 others
You
10:05 AM | hyh-cczf-kiy


Dr.Ujwala Bharambe is presenting
Evolutionary Algorithm : Corona
THADOMAL SHAHANI
TSEC
ENGINEERING COLLEGE
COVID variants consequential effects
Increase transmissibility
Increase infectivity
Re-infections
COVID-vaccine match and effectiveness
COVID-therapeutics
Mutation in the RBD Spike protein at position 501 (N501Y)
Multiple mutations in the Spike protein (K417N; E484K; N501Y; A570D)
Mutation in the Spike protein (P681H near S1/S2 furin cleavage site)
H69/V70-del (Deletion mutation) 144 del (Deletion mutation)
Receptor Binding domain (RBD) and ACE2 binding sites in human cells
SARS-CoV-2
Vikram Chennuri
Dr.Ujwala Bhara...
Manish Jaiswar
Manjiri Tare
Uttam Pandey
Steve Dsouza
Johan Pochampally
Dallas Vaz
Lekha Ladhe
Mitesh Rege
34 others
You
10:35 AM | hyh-cczf-kiy