

DATE: 18/03/2021

Event Coordinator(s)

Mr. Vijay Jumb

Student Coordinator(s)

Ms. Sushree Nadiminty

Time & Place:

Google Meet Platform

3:00pm-5:00pm

Xavier Institute of Engineering

Department:

Computer Engineering

No of participants: 72

EVENT: Guest Lecture on Search Algorithms in ML

Details of the resource person: Prof. Richard Joseph, Assistant Professor,
Computer Engineering Department, VESIT, Mumbai

A guest lecture for Analysis of Algorithms, by Prof. Richard Joseph from Computer Engineering Department, VESIT, Mumbai on the topic “Search Algorithms in ML” was organized on Tuesday, 16th Mar, 2021.

The guest lecture was conducted on Google meet platform. Totally 72 students attended the guest lecture and the objective of the guest lecture was to provide an insight about how different algorithms are applicable in the field of Machine Learning for problem solving.

It was a very interesting and informative lecture covering many topics such as heuristic search techniques like Simple Hill Climbing, Steepest-Ascent Hill Climbing and Stochastic Hill Climbing. Common occurring problems and their solutions like Simulated Annealing were also discussed. "N-queen problem" was also discussed which was helpful in understanding backtracking.

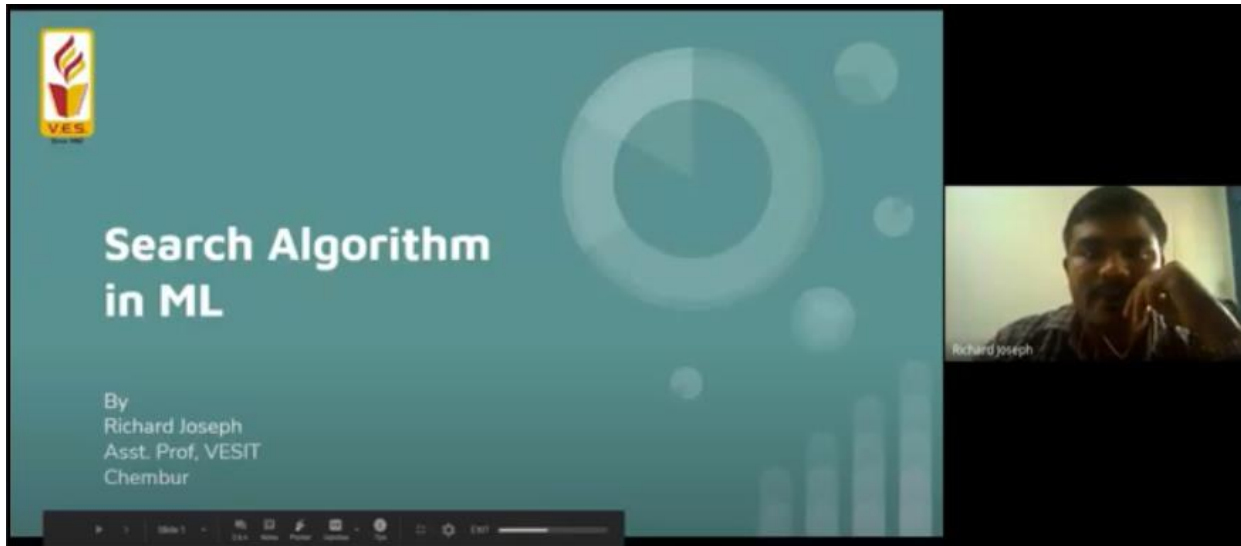
The students were quite astonished at the way available for different Search algorithms. Overall, the session was interesting and motivating for students.


Student Feedback and Benefits

The students found the session very informative, helpful and excellent. It was a knowledge gaining session.



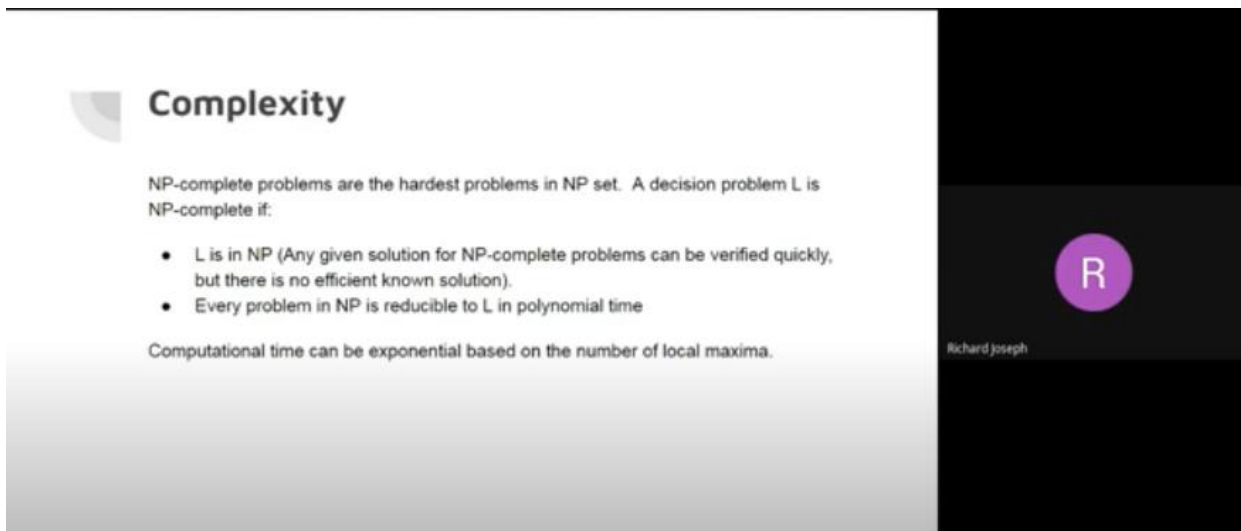
Vijay Jumb
Coordinator
Computer Engineering Department



 **Search Algorithm
in ML**

By
Richard Joseph
Asst. Prof, VESIT
Chembur

Richard Joseph




Complexity

NP-complete problems are the hardest problems in NP set. A decision problem L is NP-complete if:

- L is in NP (Any given solution for NP-complete problems can be verified quickly, but there is no efficient known solution).
- Every problem in NP is reducible to L in polynomial time

Computational time can be exponential based on the number of local maxima.



Richard Joseph

REC

B Boris Misquitta and 18 more

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3:08 PM

You

Vijay Jumb

Richard Joseph

Mitali Haldankar

Elkana Chandra Rehimon

Shaun Noronha

Chhaya Yadav

Melita Lewis

Rachael Manjaly

Divya Kulkarni

Chinmayee Patil

Athisaya Suresh Anthony

Michelle Macwan

Joshuva Jeemon

Kunal Jadhav

Chinmay Kelkar

Uzma Kapadia

Ryarr You can't remove this participant

Wesley D'Souza

Supriya Mohite

Shailesh Maurya

Diogo Dcosta

Sharon Ganta

Aniruddha Khandekar

Rahul Anandraj

Angelica Sebastian

Jeston Dsouza

Aman Tiwari

Gandharv More

Sarang Deodhar

Sneha Suzan

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