Department Of _Information Technology_

Year and Course _TY Btech_   PRN No.: _123B1F001_

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Sr. No.	Title	Page No.	Date	Signature	Remarks
1	Implement merge sort to efficiently organise large scale orders based on timestamp.	—	11/7/25		①
2	Implement Quicksort to enhance personalised movie ranking and improve responsiveness	—	25/7/25		②
3	Emergency Relief supply optimization implement the fractional knapsack algorithm to maximize utility value within given weight constraints	—	8/8/25		③

This is certify that ~~Shri.~~ _Arpita Rahul Patki_ has carried out the

above mentioned _DAA_ Practicals / Term Work

in the _Information technology_ Department of Pimpri Chinchwad College of Engineering, Pune-44.

Subject Incharge
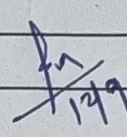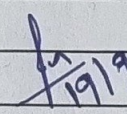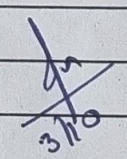
Date : 5/11/25

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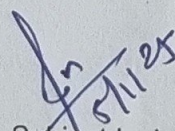
Department Of _Information technology_

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4	Smart traffic Management — Implement Dijkstra's algorithm to determine the optimal ambulance route under dynamic traffic conditions.		22/8/25	19/9	⊙
5	Optimal Delivery Routing Implement DP to identify cost effective delivery paths	—	12/9/25	19/9	⊙
6	Disaster Relief Resource Allocation — use 0/1 knapsack approach to optimize essential supply allocation within capacity limits	—	19/9/25	3/10	V. Good

This is certify that Shri. _Arpita Rahul Patki_ has carried out the

above mentioned _DAA_ Practicals / Term Work

in the _IT_ Department of Pimpri Chinchwad College of Engineering, Pune-44.
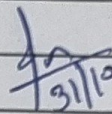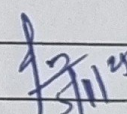
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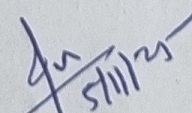
Head of Department

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Sr. No.	Title	Page No.	Date	Signature	Remarks
7	University Exam timetable scheduling Implement Graph colouring techniques to generate conflict free and efficient timetable.	—	3/10/25	31/10	©
8	Delivery Route Optimization - apply the branch and bound algorithm to determine the least cost delivery route accross cities	—	31/10/25	31/11/25	©

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Date : 5/11/25

Subject Incharge