



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

RAMKUMAR KARUNAKARAN

for successfully completing the course

Essential Mathematics for Machine Learning



with a consolidated score of **76** %

Online Assignments	23.75/25	Proctored Exam	51.75/75
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Total number of candidates certified in this course: **349**

Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

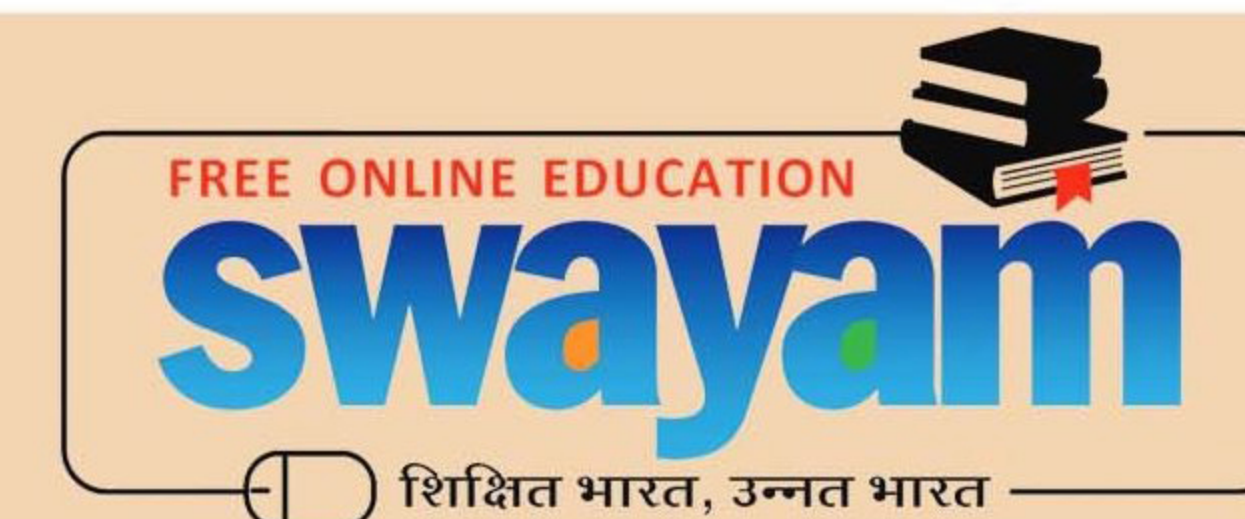
Jul-Oct 2023

(12 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL23MA93S733500852

To verify the certificate



No. of credits recommended: 3 or 4