

## Indian Institute of Technology Madras B.S. Termwise Progress Card

Roll No: 21F1003005 Name: PAUL M KALLARACKAL

Program: BS in Data Science and Applications

Earned Credit: 15 GPA: 9.53 CGPA: 9.32



Course	Title	Cat	Cr	Gr	Course Title Cat Cr
	FIRST TERM(JAN-APR 2021)				FIFTH TERM(MAY-AUG 2022)
HS1001	English I	FL	4	S	CS2007 Machine Learning Techniques DD 4
CS1001	Computational Thinking	FL	4	S	CS2008 Machine Learning Practice DD 4
MA1001	Mathematics for Data Science I	FL	4	Α	CS2008P Machine Learning Practice - Project DD 2
MA1002	Statistics for Data Science I	FL	4	Α	MS2002 Business Analytics DD 4
					SE2002 Tools in Data Science DD 3
Е	arned Credit: 16 GPA: 9.5 CGPA	: 9.5			
	SECOND TERM(MAY-AUG 2021)				Earned Credit: 17 GPA: 9.06 CGPA: 9.27
CS1002	Programming in Python	FL	4	s	SIXTH TERM(SEP-DEC 2022)
HS1002	English II	FL	4	Α	CS3002 Software Testing BP 4
MA1004	Statistics for Data Science II	FL	4	Α	CS3003 Al: Search Methods for Problem Solving BD 4
MA1003	Mathematics for Data Science II	FL	4	S	CS3004 Deep Learning BD 4
					MS4001 Industry 4.0 HM 4
Е	arned Credit: 16 GPA: 9.5 CGPA	: 9.5			•
	THIRD TERM(SEP-DEC 2021)				Earned Credit: 16 GPA: 8.5 CGPA: 9.14
CS2001	Database Management Systems	DP	4	Α	SEVENTH TERM(MAY-AUG 2023)
CS2002	Programming, Data Structures and				CS3001 Software Engineering BP 4
	Algorithms using Python	DP	4	В	GN3001 Strategies for Professional Growth HM 4
CS2003	Modern Application Development I	DP	4	Α	MS3002 Market Research HM 4
CS2004	Machine Learning Foundations	DD	4	Α	MS4003 Financial Forensics HM 4
F	arned Credit: 16 GPA: 8.75 CGPA	. 9 25			Earned Credit: 16 GPA: 9.25 CGPA: 9.16
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	FOURTH TERM(JAN-APR 2022)				EIGHTH TERM
CS2005	Programming Concepts using Java	DP	4	Α	NPTEL Theory of Computation BP 2
CS2006	Modern Application Development II	DP	4	S	NPTEL Object Oriented Analysis and Design BP 2
MS2001	Business Data Management	DD	4	S	, , ,
SE2001	System Commands	DP	3	Α	

		Cumi	ulative Grade P	oint Average (C	GPA) Summary			
Cat	Foundation Level (FL)	Diploma - Programming (DP)	Diploma - Data Science (DD)	Degree - Programming (BP)	Degree - Data Science (BD)	Humanities and Management (HM)	Science and Engineering (SE)	Total
Min. Required Credits	32	23	23	16	16	8	0	142
Earned Credits	32	23	25	8	8	16	0	112
Fransferred Credits Φ	-	-	-	-	-	-	-	-
CGPA	9.5	9.0	9.2	۵	8.5	a	Λ	0.16

 $<sup>\</sup>Phi \ Transfer \ Credits \ + \ Earned \ Credits \ + \ Earned \ Credits \ should \ meet \ the \ total \ credit \ requirement.$ 



Date: 27 October 2023 ment was generated electronically.



## Degree in Data Science and Applications (B.S.)

Gr	ade	Dl			
Code	Points	Remarks			
S	10				
A	9				
В	8				
C	7				
D	6				
E	4				
U	0				
P	0	Pass			
F	0	Fail			
W	0	Not eligible for End Term Exam			
I 0		Absent for End Term Exam			

Grades 'S' to 'E' and 'P' indicate successful completion of course. Courses with grade 'I', 'P' or 'F' do not count towards GPA or CGPA calculation.

For award of Degree, the student has to earn the minimum credits mentioned under the "Total" and also satisfy the category-wise credit requirement as per CGPA summary table in the front page.

$$\mathsf{GPA} = \frac{\sum_{i} (\mathsf{C}_{i} \times \mathsf{GP})}{\sum_{i} \mathsf{C}_{i}}$$

where  $C_i = \text{credit of the course}$ 

GP = Grade point based on the letter grade obtained for the course

 $\Sigma_i$  C<sub>i</sub> = the sum of credits of all courses taken in that term, including those in which the learner has secured U / W grades.

For the cumulative grade point average (CGPA), a similar formula is used where the sum  $\sum C_i$  is the sum of credits of all courses taken in all the terms successfully completed up to that point in time.