

# National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty

## Curriculum Vitae

### Brief Profile:

I am a faculty member with the Dept. of Computer Science and Engineering at the National Institute of Technology, Tiruchirappalli, India to which I am affiliated since September 2022. Before that, I had a short stint as an Assistant Professor with the CSE department at IIIT Kottayam. I received PhD in Computer Science in 2018 from Indian Institute of Information Technology, Design and Manufacturing Kancheepuram and was fortunate to be advised by Dr. Sivaselvan. I held a post-doctoral fellowship with Computer Science department at the Indian Institute of Technology, Kanpur advised by Prof. Arnab Bhattacharya. My current research interests include data mining, computational science for social good, machine learning, natural language processing and human-computer interaction. I am highly interested to use computing as a tool to develop solutions for challenges faced by people in day-to-day life. I am passionate about teaching where I keep Prof. H. C. Verma as my role model. Motivated students who would like to work with me can drop an email at [oswald@nitt.edu](mailto:oswald@nitt.edu).



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2. Designation: Assistant Professor
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6. Field(s) of Specialization: Data Mining, Computational Science for Social Good, Machine Learning, Natural Language Processing, Human-Computer Interaction.
7. Employment Profile

Job Title	Employer	From	To
Assistant Professor, Computer Science and Engineering	IIIT Kottayam	July 2022	September 2022
Institute Postdoctoral Fellow, Computer Science and Engineering	Indian Institute of Technology Kanpur	Feb 2021	July 2022
Assistant Professor–Senior, School of Computer Science and Engineering	VIT Chennai	June 2019	February 2021

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Assistant Professor, Department of Computer Science and Engineering	SRM IST, Chennai	June 2018	May 2019
Intern	IBM India Systems & Software Lab, Bangalore	Dec 2012	July 2013
Programmer Analyst	Cognizant Technology Solutions, Chennai	Dec 2009	May 2011

### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	Institute of Information Technology, Design and Manufacturing Kancheepuram	2018		Computer Science and Engineering
M.Tech.	Karunya University	2013	I class with Distinction	Software Engineering
B.E.	Anna University (Sona College of Technology)	2009	I class with Distinction	Computer Science and Engineering
HSC – Govt. Improvement Scheme	TN School Education Board	2005	I class with distinction	Tamil, English, Maths, Physics, Chemistry and Biology

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Anti-Ragging Committee Squad Member	CSE	17 Nov 2022	Till now

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

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### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2021	Research Excellence Award	VIT Chennai

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2021	Institute Postdoctoral Fellowship	IIT Kanpur	Feb 2021	July 2022

### 13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels

Artificial Intelligence, Big Data Analytics  
 Problem Solving and Programming (VIT)  
 Data Structures and Algorithms (VIT)  
 Software Quality and Reliability (VIT)  
 Data Mining (SRM University)

- (iii) Projects guided at Postgraduate level

- (iv) Other contribution(s)

Patents:

1. Oswald C, M. Mohamad Fasil Ansaary, P. Raghava Ratna, An Integrated System and Method for a Touchless, Paperless Election Voting for Government and Private mode, February 05, 2021. File No. 202141003735.
2. Oswald C, Jayapragash R, Trishit Chakraborty, Tanishq Gupta, Aditya Agrawal, SPoTA: Smart Prevention of Train Accidents, August 28, 2020. File No. 202041035035.
3. Balasundaram A, Manas Ranjan Prusty, Inayathullah M A, Oswald C, Smart Attendance Marking System (SAMS) using Computer Vision, July 03, 2020. File No. 202041025660.

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

### 15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
2021	Paper Presentation	International - CODS'22	Paper Presenter	ACM India	IIT Bangalore, India
2017	Paper Presentation	International - INDICON'17	Paper Presenter	IEEE Chapter	IIT Roorkee
2017	Paper Presentation	International – MIKE'17	Paper Presenter	IDRBT	IDRBT, Hyderabad, India
2016	Paper Presentation	International - INDICON'16	Paper Presenter	IEEE Chapter	IISc. Bangalore
2016	Paper Presentation	International - ADCOM'16	Paper Presenter	IEEE Chapter	Bangalore, India.

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

18. Invited Talks delivered

Topic	Date	Inviting Organization
An Informal Introduction to Supervised and Unsupervised Learning	19-23 April, 2021	NIT Tiruchirappalli

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date

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### 20. Academic Foreign Visits

Country	Duration of Visit	Programme

### 21. Publications

#### (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
C. Oswald, Sona Elza Simon and Arnab Bhattacharya	SpotSpam: Intention Analysis Driven SMS Spam Detection using BERT Embeddings	ACM Transactions on the Web	16	1-27	2022	
C. Oswald & Sivaselvan, B.	Text and Image Compression based on Data Mining Perspective	Data Science Journal	17	1-12	2018	
C. Oswald and B. Sivaselvan	Smart Multimedia Compressor – Intelligent Algorithms for Text and Image Compression	The Computer Journal	-	1-16	2021	
C. Oswald, Haritha, E., Akash Raja, A. and Sivaselvan	An efficient and novel data clustering and run length encoding approach to image compression	The Wiley - Concurrency and Computation: Practice and Experience	33	1-16	2021	
C. Oswald and B. Sivaselvan	An optimal text compression algorithm based on Frequent Pattern Mining	Springer Journal of Ambient Intelligence and Humanized Computing	9	1-20	2017	

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
C. Oswald, Gadi Jaya Satwika and Arnab Bhattacharya	Prediction of CardioVascular Disease (CVD) using Ensemble Learning Algorithms	9th ACM India Joint International Conference on Data Science & Management of Data (CODS-COMAD)	292-293		IIIT Bangalore	2021
Biswas, Subham, Nikhil Chennu, Harsha Valveti, C. Oswald, and B. Sivaselvan	Lossy Image Compression using Frequent Pattern Mining based Huffman Encoding	14th IEEE India Council International Conference (INDICON)	1-6		IIT Roorkee	2017
Oswald C., Ajith Kumar I., Avinash J., Sivaselvan B.	A Graph-Based Frequent Sequence Mining Approach to Text Compression	5th International Conference on Mining Intelligence and Knowledge Exploration (MIKE)	371-380		IDRBD Hyderabad	2017
Kadimisetty, Avinash, C. Oswald, B. Sivaselvan, and Kadimisetty Alekhya	Lossy image compression— A frequent sequence mining perspective employing efficient clustering	13th IEEE Annual India Conference (INDICON)	1-6		IISc. Bangalore	2016
Kadimisetty, Avinash, C. Oswald, and B. Sivaselvan	Frequent Pattern Mining Approach to Image Compression	22nd Annual International Conference on Advanced Computing and Communication (ADCOM)	1-6		Bangalore, India	2016

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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number