

## Curriculum Vitae: Wg Cdr Gurpreet Singh

### Personal details

<b>Date of birth</b>	08 Jan 1985
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<b>Present address</b>	Associate Professor, Department of Community Medicine, Armed Forces Medical College, Pune, India - 411001

### Educational qualifications.

- **MBBS** – Armed Forces Medical College, Pune, India (2002-06)
- **MD (Community Medicine)** – Armed Forces Medical College, Pune, India (2012-15)
- **DNB (Community Medicine)** (2016) – National Board of Examinations, India.
- **PhD (Health Sciences): Epidemiology** – Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, India (2019-2023).

### Achievements.

- Director General Armed Forces Medical Services (DGAFMS) Gold Medal - MD Community Medicine (June 2015).
- President, National Board of Examinations Gold Medal – DNB Social and Preventive Medicine (Dec 2015).
- General Officer Commanding (GOC) Appreciation Certificate and Medallion (HQ 11 Corps, Indian Army - 2017).
- Best PhD Paper Award – National Conference of the Indian Association of Preventive and Social Medicine at PGIMER, Chandigarh (IAPSMCON 2021).
- Excellent Grading and Best Speaker Award - Senior Medical Officer Administrative Course held at Medical Training Centre, Bengaluru by Indian Air Force (SMOAC 2022).

- Air Officer Commanding (AOC) appreciation certificate (28 Wing, Indian Air Force - 2023)
- President (L) Appreciation Certificate, Air Force Families Welfare Association, 28 Wing – 2023.
- Runner-up Public Health Trophy for best station in Indian Air Force – 2023.
- Gavin Mooney Prize for Best PhD paper – National Conference of the Indian Health Economics and Policy Association, Flame University, Pune (IHEPA 2024)

### **Work Experience.**

- Medical Officer, Indian Armed Forces (2006-15)
- Assistant Professor, Department of Community Medicine, Armed Forces Medical College, Pune, India (2015-16)
- Officer Commanding, Station Health Organisation, Jalandhar Cantt, India (2016-2019)
- PhD Scholar, AMCHSS, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, Kerala, India (2019-2023).
- Classified Specialist (Community Medicine), Epidemiologist, and Senior Medical Officer, Air Force Station, Hindan (2022-2024)
- Associate Professor, Department of Community Medicine, Armed Forces Medical College, Pune (2024-till present)

### **Research and Publications.**

- Publications in National/International indexed peer-reviewed journals: 46
- Codes published in repositories: 21
- Online books: 03
- National/International conferences/workshops/CME participated: 62

### **Funded research projects undertaken:**

- Development and Effect of a Coordinated Community health Worker Intervention Model for the Stroke Survivors in Kerala, South India (Department of Health and family Welfare, Govt of Kerala) – Rs 10 Lakhs.
- Transforming COVID-19 testing data into actionable evidence for public health decision-making using epidemiological, spatiotemporal, and data-science methods (ICMR, Govt of India) – Rs 26.2 Lakhs.
- Morbidity and Healthcare-seeking behaviour of the patients visiting the Ayurveda healthcare facilities of the DGAFMS Hospitals: A multicentre cross-sectional survey study (Director

General Armed Forces Medical Services and Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH) – Rs 8.42 Lakhs

### **Memberships**

- Indian Public Health Association (IPHA).
- Indian Association of Preventive and Social Medicine (IAPSM).
- Indian Association of Epidemiologists (IAE).
- Epidemiology Foundation of India (EFI).
- Indian Health Economics and Policy Association (IHEPA)

### **Fellowships**

- Indian Society for Malaria and Other Communicable Diseases.
- International Fellowship on Health Technology Assessment.

### **Areas of Interest.**

Infectious Disease Epidemiology, Data Science, Disease Surveillance, Disease modelling, Spatial and Spatiotemporal Epidemiology, Open-source solutions, Clinical Epidemiology, Policy analytics.

## PUBLICATIONS

1. Gupta, Pooja; Kannath, Santhosh K.1; Thomas, Bejoy1; Chandrasekharan, Kesavadas1; Singh, Gurpreet2. Combined Susceptibility-Weighted Imaging and Vessel Wall Imaging of Unruptured Intracranial Aneurysms Presenting with Sentinel Headache. *Neurology India* 73(2):p 251-256, Mar–Apr 2025. | DOI: 10.4103/neurol-india.Neurol-India-D-24-00290
2. Zaidi, Ilham1; Sarma, P. S.1; Khayyam, Khalid Umer2; Toufique Ahmad, Quazi3; Ramankutty, V.4; Singh, Gurpreet1. Sociodemographic factors affecting knowledge levels of tuberculosis patients in New Delhi. *Journal of Family Medicine and Primary Care* 13(11):p 5152-5158, November 2024. | DOI: 10.4103/jfmfp.jfmfp\_387\_24
3. Ray, Sougat Surg Cmde1; Tawar, Shabeena Surg Capt2; Singh, Neha Lt Col3; Singh, Gurpreet Wg Cdr4. Transition toward Technological Transformation: Challenges of Implementing Virtual Reality and Augmented Reality in the Health Sector. *Journal of Marine Medical Society* 26(2):p 161-164, May–Aug 2024. | DOI: 10.4103/jmms.jmms\_89\_23
4. Sylaja PN, Babu V, S S, et al. Development and effect of a coordinated Community Health Worker (CHW) Intervention (C-CHW-I) model for the stroke survivors in Kerala, South India. *Cerebrovasc Dis* 2024; published online Jan 5. DOI:[10.1159/000536077](https://doi.org/10.1159/000536077).
5. Maheshwari V, Dhurvey DK, Singh G. Association of Ocular Injuries in Patients with Head Injury: A Tertiary-Level Armed Forces Experience. *Medical Journal of Dr DY Patil Vidyapeeth* 2024; **17**: 199–204.
6. Zaidi I, Sarma PS, Umer Khayyam K, Toufique Ahmad Q, Ramankutty V, Singh G. Factors associated with treatment adherence among pulmonary tuberculosis patients in New Delhi. *Indian Journal of Tuberculosis* 2023; : S0019570723001531.
7. Singh G, Soman B, Grover GS. Exploratory Spatio-Temporal Data Analysis (ESTDA) of Dengue and its association with climatic, environmental, and sociodemographic factors in Punjab, India. *Ecological Informatics* 2023; **75**: 102020.
8. Krishnamoorthy S, Singh G, Sreedharan SE, et al. Soluble ST2 Predicts Poor Functional Outcome in Acute Ischemic Stroke Patients. *Cerebrovasc Dis Extra* 2023; : 33–40.
9. Krishnamoorthy S, Sylaja PN, Sreedharan SE, et al. Biomarkers predict hemorrhagic transformation and stroke severity after acute ischemic stroke. *Journal of Stroke and Cerebrovascular Diseases* 2023; **32**: 106875.
10. Singh G, Soman B, Grover GS. Development and use of open-source algorithms for space-time emerging hotspot analysis of routine dengue NVBDCP data in Punjab, India. *Int J Community Med Public Health* 2022; **10**: 148.
11. Mitra A, Soman B, Gaitonde R, Singh G, Roy A. Data Science Methods to Develop Decision Support Systems for Real-time Monitoring of COVID-19 Outbreak. *J Hum Earth Future* 2022; **3**: 223–36.
12. Singh G, Mitra A, Soman B. Development and use of a reproducible framework for spatiotemporal climatic risk assessment and its association with decadal trend of dengue in India. *Indian J Community Med* 2022; **47**: 50.

13. Rahul A, Saini P, Valamparampil MJ, *et al.* Epidemiological and clinical characterization of dengue virus serotypes during 2017–2019 in southern Kerala, India. *Transactions of The Royal Society of Tropical Medicine and Hygiene* 2022; : trac001.
14. Vishnuprasad R, Tejas A, Pasricha S, Singh G, Ojha D, Kotwal A. Effectiveness of structured education through social media to medical students. *Med J DY Patil Vidyapeeth* 2022; **0**: 0.
15. Saleem S, Singh G, Zaidi I, *et al.* Geospatial epidemiology of hypertension and its risk factors in India: Findings from National Family Health Survey (2015–2016). *J Family Med Prim Care* 2022; **11**: 5730.
16. Pan S, Kannath S, Singh G, Rajan J. A Prospective Study Comparing the Three-Dimensional Rotational Angiography and Two-Dimensional Digital Subtraction Angiography in Evaluation of Brain Arteriovenous Malformations. *Neurol India* 2022; **70**: 1905.
17. Krishnamoorthy S, Singh G, Jose K J, *et al.* Biomarkers in the Prediction of Hemorrhagic Transformation in Acute Stroke: A Systematic Review and Meta-Analysis. *Cerebrovasc Dis* 2022; **51**: 235–47.
18. Singh I, Shukla A, Thulaseedharan JV, Singh G. Contraception for married adolescents (15–19 years) in India: insights from the National Family Health Survey-4 (NFHS-4). *Reprod Health* 2021; **18**: 253.
19. Singh G, Soman B. Spatiotemporal Epidemiology and Forecasting of Dengue in the state of Punjab, India: Study Protocol. *Spatial and Spatio-temporal Epidemiology* 2021; : 100444.
20. Balasubramanian AP, Kannath SK, Rajan JE, Singh G, Kesavadas C, Thomas B. Utility of silent magnetic resonance angiography in the evaluation and characterisation of intracranial dural arteriovenous fistula. *Clinical Radiology* 2021; **76**: 712.e1-712.e8.
21. Singh G, Soman B, Mitra A. A Systematic Approach to Cleaning Routine Health Surveillance Datasets: An Illustration Using National Vector Borne Disease Control Programme Data of Punjab, India. *arXiv:210809963 [cs]* 2021; published online Aug 23. <http://arxiv.org/abs/2108.09963> (accessed Sept 24, 2021).
22. Mitra A, Soman B, Singh G. An Interactive Dashboard for Real-Time Analytics and Monitoring of COVID-19 Outbreak in India: A proof of Concept. *arXiv:210809937 [cs]* 2021; published online Aug 23. <http://arxiv.org/abs/2108.09937> (accessed Sept 24, 2021).
23. Thompson HA, Mousa A, Dighe A, *et al.* Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Setting-specific Transmission Rates: A Systematic Review and Meta-analysis. *Clinical Infectious Diseases* 2021; : ciab100.
24. Sylaja PN, Singh G, Sivasambath S, *et al.* Secondary prevention of stroke by a primary health care approach: An open-label cluster randomised trial. *Journal of Clinical Neuroscience* 2021; **84**: 53–9.
25. Yadav A, Kumar S, Singh G, Kansara N. Demystifying R naught: Understanding what does it hide? *Indian J Community Med* 2021; **46**: 7.
26. Sharma DP, Kannath SK, Singh G, Rajan JE. Shunt Site Localization of Direct Carotid-Cavernous Fistula Using 3D Rotational Angiography—Utility of Broken-Rim Sign. *World Neurosurgery* 2020; **144**: e376–9.

27. Thompson H, Mousa A, Dighe A, *et al.* Report 38: SARS-CoV-2 setting-specific transmission rates: a systematic review and meta-analysis. 2020 DOI:[10.25561/84270](https://doi.org/10.25561/84270).
28. Singh G, Patrikar S, Sarma P, Soman B. Time-dependent dynamic transmission potential and instantaneous reproduction number of COVID-19 pandemic in India. *Infectious Diseases (except HIV/AIDS)*, 2020 DOI:[10.1101/2020.07.15.20154971](https://doi.org/10.1101/2020.07.15.20154971).
29. Singh G, Srinivas G, Jyothi EK, Gayatri LK, Gaitonde R, Soman B. Containing the first outbreak of COVID-19 in a healthcare setting in India: The sree chitra experience. *Indian J Public Health* 2020; **64**: S240–2.
30. Singh Bhalla G, Grover N, Singh G, *et al.* Prevalence of non tuberculous mycobacterial infection in surgical site infections and their antibiotic susceptibility profile. *Medical Journal Armed Forces India* 2020; : S0377123720300277.
31. Singh G, Patrikar S, Basannar DR, Bhatti VK. Health technology assessment of fixed-dose combination regimen in treatment of newly diagnosed smear-positive pulmonary tuberculosis: A meta-analysis. *Medical Journal Armed Forces India* 2020; **76**: 192–200.
32. Singh G, Tilak R, Kaushik S. Bio-eco-social determinants of Aedes breeding in field practice area of a medical college in Pune, Maharashtra. *Indian J Public Health* 2019; **63**: 324.
33. Singh G, Prakash R, Bhatti V, Mahen A. Spinal cord injury in organizational setup - A hospital based descriptive study. *J Mar Med Soc* 2019; **21**: 46.
34. Bhalla G, Grover N, Singh G, Sarao M, Mishra D. Antimicrobial susceptibility profile of surgical site infection isolates from a tertiary care center in West India. *J Mar Med Soc* 2019; **21**: 69.
35. Chauhan P, Mohanty S, Vardhan V, Ray S, Singh G. Use of Low Dose Azithromycin Mass Prophylaxis as Strategy in Control of Pneumonia Outbreak in Institutional Setting. *International Review of the Armed Forces Medical Services* 2018; **91/3**.
36. Gupta MK, Pasricha S, Kaur R, *et al.* Biomedical Waste Management (BMWM) rules: Have we Adapted ourselves with the Latest? *International Journal of Current Advanced Research* 2018; **7**: 13246–9.
37. Singh G, Pasricha S, Nanda GS, Singh H, Bandyopadhyay K, Ray G. Internet use behavior, risk profile and ‘problematic internet use’ among undergraduate medical students: an epidemiological study. *Int J Community Med Public Health* 2018; **5**: 532.
38. Singh G, Nanda G, Singh H. Cardiovascular Disease (CVD) Risk estimation among 40 years and older using WHO/ISH risk prediction charts. *Public Health Rev: Int J Public Health Res* 2017; **4**: 134–40.
39. Singh G, Kaushik SK, Mukherji S. Revelations of an overt water contamination. *Medical Journal Armed Forces India* 2017; **73**: 250–5.
40. Dudeja P, Singh G, Gadekar T, Mukherji S. Performance of Indian Diabetes Risk Score (IDRS) as screening tool for diabetes in an urban slum. *Medical Journal Armed Forces India* 2017; **73**: 123–8.
41. Sindhu A, Ramakrishnan T, Khera A, Singh G. A study to assess the knowledge of medical students regarding organ donation in a selected college of Western Maharashtra. *Med J DY Patil Univ* 2017; **10**: 349.
42. Dudeja P, Dudeja A, Singh G, Mukherji S. Regulatory framework for ‘gluten-free’ foods in India: Magic bullet for celiac disease patients. *Med J DY Patil Univ* 2016; **9**: 680.

43. Singh G, Bhatnagar A, Mukherji S, Goel D. Drug prescription behavior in a Teaching Hospital of Western Maharashtra. *Med J DY Patil Univ* 2016; **9**: 695.
44. Jindal AK, Singh G, Pandya K. Qualitative research in medicine – An art to be nurtured. *Medical Journal Armed Forces India* 2015; **71**: 369–72.
45. Dubey M, Singh G, Bhatti VK, Mahen A, Kunte R, Katara SK. [Reinfection of Varicella zoster in a vaccinated adult](#). *Medical Journal Armed Forces India* 2015; **71**: S214–6.
46. Bhatti VK, Budhathoki L, Kumar M, Singh G, Nath A, Nair GV. Use of immunization as strategy for outbreak control of varicella zoster in an institutional setting. *Medical Journal Armed Forces India* 2014; **70**: 220–4.

### **Published R codes/ GitHub repositories**

1. Iphacon
2. Singh G, Soman B. Steps in Infectious Disease Modeling. 2020 DOI:10.13140/RG.2.2.11580.05763.
3. Singh G, Soman B. Information from models to understand outbreak situation An illustrative example using COVID-19 data. 2020 DOI:10.13140/RG.2.2.14935.50081.
4. Singh G, Soman B. Illustration: Infected Cohort models using R. 2020 DOI:10.13140/RG.2.2.25001.83043.
5. Singh G, Soman B. Handling increasing complexities for Infectious Disease Modeling using R. 2020 DOI:10.13140/RG.2.2.18290.94409.
6. Singh G, Soman B. Spatial interpolation using kriging in R. 2020 DOI:10.13140/RG.2.2.34928.69122.
7. Singh G, Soman B. Spatial Interpolation using Inverse Distance Weighing (IDW) in R. 2020 DOI:10.13140/RG.2.2.33473.79208.
8. Singh G, Soman B. Estimation of spatial variation in risk using kernel smoothing in R. 2020.
9. Singh G, Soman B. Spatial Data Visualisation in R. 2020.
10. Singh G, Soman B. A brief introduction to Mathematical Disease Modelling in R. 2020.
11. Singh G, Soman B. Manipulating string variables using stringr package in R. 2020.
12. Singh G, Soman B. Generating random numbers using R. 2020 DOI:10.13140/RG.2.2.26836.14727.
13. Singh G, Soman B. Automated bibliography extraction from PubMed using R. 2020 DOI:10.13140/RG.2.2.11420.85122.
14. Singh G, Soman B. Word Cloud formation for text analytics using R. 2019 DOI:10.13140/RG.2.2.21203.73765.
15. Singh G, Soman B. Handling missing data using R. 2019 DOI:10.13140/RG.2.2.30640.92165.
16. Singh G, Soman B. Creating tidy data using tidyr package in R. 2019 DOI:10.13140/RG.2.2.31878.11845.
17. Singh G, Soman B. Data Visualisation using ggplot2 package in R. 2019.
18. Singh G, Soman B. Data Transformation using dplyr package in R. 2019 DOI:10.13140/RG.2.2.10397.46565.
19. Singh G, Soman B. Food poisoning Outbreak investigation using R: A case study approach. 2019 DOI:10.13140/RG.2.2.33597.20962.
20. Singh G, Soman B. Map making in R (GIS). 2019 DOI:10.13140/RG.2.2.29812.50568.
21. Singh G, Soman B. Intro to R. 2019 DOI:10.13140/RG.2.2.32276.65924.

## WORKSHOPS/CMES/CONFERENCES

<b>S. No</b>	<b>Courses/ Conferences</b>	<b>Organizers</b>	<b>Date</b>
01	Basic workshop in Research Methodology	AFMC, Pune	06-08 Sep 2012
02	CME on “Emerging and Re-emerging Infectious diseases, Epidemic and Pandemic preparedness”:	WHO country office, India and Singhad Technical Education Society, Pune	13-14 Sep 2012
03	CME on “Epidemics and Pandemics – Preparedness and Response”	AFMC, Pune	24-25 Sep 2012
04	Workshop on “Ethics in Medical Research”	AFMC, Pune	20-21 May 2013
05	Workshop on “Public Health Nutrition – What is New?”	UNICEF and MUHS, Regional Centre, Pune	3 June 2013
06	Workshop on “Maternal and Child Health Nutrition”	UNICEF and MUHS, Regional Centre, Pune	27 Dec 2013
07	Officers NBC Basic Course	College of Military Engineering, Pune	02 July- 06 Aug 2014
08	Basic Workshop on “Research Methodology”	MUHS Nashik and AFMC, Pune	20-22 Nov 2014
09	Basic Course on Medical Education Technologies	MCI Regional Centre, Pune	27-29 July 2015
10	National Conference on “Innovative Approaches in Public Health”	AFMC, Pune	18-20 Nov 2015
14	WHO training course on Integrated Vector Management	WHO Country Office, India and AFMC, Pune	30 Aug-26 Sep 2016
11	7 <sup>th</sup> International Fellowship in Health Technology Assessments	National Health System Resource Centre, AMTZ, Voshakapatnam	9-13 Jan 2017

12	CME on "Infectious Diseases"	Punjab Institute of Medical Sciences, Jalandhar	01 Apr 2017
13	CME on "Disaster Preparedness and Response"	MH Jalandhar	5-7 May 2018
14	CME on Updates on Managing Diabetes in the Periphery".	SCTIMST, Trivandrum and Mananthavady, Wayanad, Kerala	22 Jan 2019
15	CME on "Innovative Quality Nursing Care Through Evidence-based Practice".	Sivagiri Sree Narayana Medical Mission College of Nursing, Varkala	22-23 Feb 2019
16	Pre-conference workshop on "Surveillance in Infectious Diseases"	Govt Medical College, Kozhikode	26 Feb 2019
17	National Achutha Menon Centre Conference 2019	SCTIMST, Trivandrum	1-3 March 2019
18	Grant Writing Workshop	SCTIMST, Trivandrum	8-9 Mar 2019
19	CME on Ethics in Health Research	SCTIMST, Trivandrum	29 Apr- 2 May 2019
20	Analysing Medical and Health Data with R	SCTIMST, Trivandrum	16-17 May 2019
21	Planning Zero Dengue Death Initiative and Dengue update	Govt of Kerala, Trivandrum	28 May 2019
22	5th National Workshop cum CME on Health Systems Strengthening (Theme – Skill development for Geographical Information System)	PGI, Chandigarh	1-5 July 2019
23	National CME on Health Technology Assessment	AFMC, Pune	25-26 Nov 2019
24	Value and Use of HTA in Health Policy Making for Kerala State	SCTIMST, Trivandrum	27-28 Nov 2019

25	Analyzing Medical and Health Data using R	SCTIMST, Trivandrum	17-20 Dec 2019
26	Use of bibliographic software; hands-on training with Zotero	SCTIMST, Trivandrum	07 Jan 2020
27	Regression models for estimating relationships in Epidemiological studies	SCTIMST, Trivandrum	8-10 Jan 2020
28	Certification Programme on "Engineering with Python"	International Centre for Free and Open Source Softwares (ICFOSS), Trivandrum	21- 29 May 2020
29	Certification Programme on "Machine Learning through FOSS"	International Centre for Free and Open Source Softwares (ICFOSS), Trivandrum	01-09 June 2020
30	48th Annual National Conference of India Association of Preventive and Social Medicine: IAPSMCON 2021	PGI, Chandigarh	
31	Workshop on “Technical Writing and Communications in Research”.	SCTIMST, Trivandrum	12 May 2021
32	66 <sup>th</sup> Annual National Conference of Indian Public Health Association	Bhatati Vidyapeeth Medical College, Pune	23-25 Sep 2022
33	45 <sup>th</sup> Senior Medical Officer Administrative Course	MTC, Bengaluru	22 Aug-03 Sep 2022
34	CME on Health and Wellness: Pragmatic shift from Clinical Care to Holistic Health Care”	AFMC, Pune	13-14 Oct 2022
35	Regression Analysis including checking of assumptions using R	IPHA, Kolkata	06 Apr 2023
36	67 <sup>th</sup> Annual National Conference of Indian Public Health Association	IPHA, Kolkata	7-9 Apr 2023

37	Public Health Data Science Mentorship Initiative	IPHA, Kolkata	09 Apr 2023
38	Marketing Public Health	New England Public Health Training Centre (Online)	22 Apr 2023
39	Holistic care with Ayurveda and Yoga as Adjuvant to Mainstream Care	MH Ranikhet	20-21 June 2023
40	National Workshop on Health Data Analytics	AIIMS Kalyani	4-7 Dec 2023
41	Basic Course in Biomedical Research	ICMR, NIE	Dec 2023
42	11 <sup>th</sup> National Conference of Indian Health Economics and Policy Association (IHEPA_	Flame University, Pune	17-19 Jan 2024
43	51st Annual National Conference of Indian Association of Preventive and Social Medicine (IAPSMCON 2024)	Kasturba Medical College, Mangalore	8-10 Feb 2024
44	68 <sup>th</sup> Annual National Conference of Indian Public Health Association (IPHACON 2024)	Atal Bihari Vajpayee Institute of Mountaineering and Allied Sports, Manali, HP	15-17 Mar 2024
45	Illuminati 2024	AFMC, Pune	22 Mar 2024
46	National workshop on Infectious disease modelling using R	EFICON, KGMU, Lucknow	27 Nov 2024
47	15 <sup>th</sup> Annual National Conference – ISMOCD 2025	NIMR, ICMR, New Delhi	31 Jan – 02 Feb 2025
46	Research Methodology Workshop	DHR - AFMC, Pune	24-26 Sep 2024
47	69th Annual National Conference – IPHACON 2025	KLE Convention Centre, Belagavi, Karnataka	21-23 Mar 2025

48	Capacity Building Program on Spatial Health and Epidemiology	Central University of Gujrat, Vadodara	15-19 Sep 2025
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### **DATA SCIENCE RELATED WORKSHOPS/ COURSES**

S. No	Course	Centre	Date
01	Analyzing Medical and Health Data with R	SCTIMST, Trivandrum	16-17 May 2019
02	Analyzing Medical and Health Data using R	SCTIMST, Trivandrum	17-20 Dec 2019
03	Use of bibliographic software; hands-on training with Zotero	SCTIMST, Trivandrum	07 Jan 2020
04	Certification Programme on "Engineering with Python"	International Centre for Free and Open Source Softwares (ICFOSS)	21- 29 May 2020
05	Certification Programme on "Machine Learning through FOSS"	International Centre for Free and Open Source Softwares (ICFOSS), Trivandrum	01-09 June 2020
06	Data Analysis using R	SCTIMST, Trivandrum and FETP programme, India	06 Cohorts conducted
07	Spatial Epidemiology Using R for Health Professionals	SCTIMST, Trivandrum	Conducted on 09-10 Dec 2022
08	Public Health Data Science Mentorship Initiative	IPHA, Kolkata	Conducted on 09 Apr 2023
09	Health Data Analytics	AIIMS, Kalyani	Conducted on 04-06 Dec 2023
10	R for Social Scientists	FLAME univeristy, Pune	Conducted on 16 Jan 2024
11	Spatial Epidemiology using R	IAPSMCON, KEM, Mangalore	Conducted on 06 Feb 2024
12	Communicating research using R	IAPSMCON, KEM, Mangalore	Conducted on 07 Feb 2024
13	Time series forecasting using R	IPHACON, ABVIMAS, Manali	Conducted on 14 Mar 2024
14	Workshop: AI and Startups in HealthCare	Illuminati, AFMC, Pune	Conducted on 22 Mar 2024

15	Big data and Data Science: Basics and Advanced	CDAC Noida	Jun-Aug 2025
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