

YADHISRESHT HARIKRISHNAN

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EDUCATION

SRM Institute of Science and Technology (SRMIST), Kattankulathur, Chennai

Bachelor of Technology in Computer Science

Engineering w/s Artificial Intelligence &
Machine Learning

Batch 2024-28

Relevant coursework: Machine learning, Deep Learning, Data Analytics, OOPs, Python, Java, DSA, Operating Systems

EXPERIENCE & INTERNSHIP

Co-Founder, FORESIGHT-X

January 2025- Present

Foresight X Lab is an independent research and innovation hub of 8 members (7 students and 1 faculty) committed to revolutionizing disaster management by integrating **Artificial Intelligence (AI)** and **Machine Learning (ML)** with earthquake technology. The lab bridges **computational intelligence and geophysical sciences** to develop sustainable, data-driven, and real-time systems for disaster prediction, response, and recovery. Through an **interdisciplinary approach**, it aims to enhance seismic forecasting, optimize emergency response, and build resilient communities.

Key Focus Areas:

- AI and ML integration in earthquake prediction and disaster management
- Digital twins and Artificial Neural Networks (ANN) for real-time modeling
- Geospatial intelligence and data-driven simulation
- Sustainable and adaptive disaster response frameworks
- Collaboration between AI, data science, and geophysics experts

Directorate of Student Affairs, SRM- EMCEE Team

September 2024- Present

Master of Ceremonies- COMMITTEE MEMBER

- Emceed in 5 different languages Hindi , Tamil , English , Kannada & Telegu
- Collaborating with 30+ other domain and club convenors to successfully execute all the DSA events.
- Served as the primary host for various college cultural events.
- Emceed in front of 10,000+ people in one of India's largest college cultural fest, MILAN

Cintel Student Association- Research & Development Team COMMITTEE MEMBER

May 2025- Present

- Member of the Research Team, Department Student Association, actively involved in exploring research opportunities and innovation-driven projects within the department.
- Collaborating with peers and faculty to **initiate research ideas and frameworks** focused on integrating technology and data-driven approaches in the field.

ISET – SRM CHENNAI STUDENT CHAPTER VICE PRESIDENT

August 2025- Present

- Responsible for leading strategic initiatives, mentoring members, and fostering innovation in earthquake engineering and geotechnical research.
- **Organized a global hackathon**, managing end-to-end event execution including planning, logistics, speaker engagement, and participant coordination, attracting national and international participation.
- **Collaborated with industry experts and faculty mentors** to host technical sessions, workshops, and guest lectures promoting knowledge exchange and practical learning.

ACHIEVEMENTS

- Placed 2nd out of 150 teams in **SEISMO HACK 1.0 National Hackathon** conducted by ISET
- Placed 3rd out of 900 teams in **Manipal Hackathon 2025** a National Hackathon conducted by MAHE, MANIPAL
- Placed 1st out of 90 teams in **GEO HACK 1.0 2025** conducted by IEEE GRSS SRMIST
- Placed 3rd out of 80 teams in **Pitch Perfect 2025** conducted by Directorate of Alumni Affairs - SRMIST
- Placed as Runner Up in **TechZooka 2025** conducted by Infosys in collaboration with IIT Madras

RESEARCH & PROJECTS

Research Paper: Advancing Earthquake Engineering: The Role of Machine Learning and Deep Learning in Mitigating Seismic Risks (SELECTED FOR PUBLISHING IN SPRINGER)

- The paper is based on **applying Machine Learning (ML) and Deep Learning (DL) techniques to earthquake engineering**, emphasizing how computational models can analyze seismic data, predict hazards, and support efficient disaster risk reduction and structural safety planning. Presented the paper at **IIT INDORE**.

Research Paper: Seismic Hazard Assessment in North-Eastern India using ANN & Geospatial Analysis (Ongoing)

- Focusing on integrating **Artificial Neural Networks (ANN)** with **geospatial data** to model seismic patterns, assess regional vulnerability, and enhance earthquake risk prediction accuracy.

Research Paper: Employing AI Driven Classification Techniques of Structural Supports Selection for Offshore Piping System (Ongoing)

- Aimed at developing **AI-based predictive models** to optimize support design, improve structural stability, and enhance safety in offshore engineering systems.

Research Paper: Deep Learning Approaches for Early Detection and Prognostic Prediction in Cervical Cancer Screening (Ongoing)

- Focusing on utilizing **deep neural networks** for **automated diagnosis and risk prediction**, enabling early intervention and improved clinical decision-making in healthcare.

Research Project: Artificial Intelligence based Spatial Information Systems in Support of Disaster Management (Ongoing) – CINTEL in collaboration with ARIES

- Artificial Intelligence based Spatial Information Systems in Support of Disaster Management

Reading Tool For People Suffering from ADHD , Dyslexia & Low Vision

- Developed a browser-based application designed to enhance reading accessibility through **AI-driven text assistance, customizable visual settings, and focus-enhancing tools** to support neurodiverse users.

MARINUS DATUM - Marine Biodiversity & Climate Analytics

- Built an AI-driven predictive system for marine and climate data analysis to forecast biodiversity changes, enabling conservation insights and ecosystem management.

AI CRICKET CHATBOT

- Designed an intelligent conversational chatbot leveraging NLP and machine learning to provide interactive cricket analytics, match insights, and player performance predictions.

TERRAGUARD - AI-Powered Climate Guard System

- Developed an AI-based analytical and predictive platform for climate monitoring and risk assessment using environmental datasets to enhance decision-making in sustainability and disaster resilience.

SKILLS

Technical:

- Python- Matplotlib, NumPy, Pandas, Tensorflow
- C++
- Power BI
- GIS Mapping
- Machine learning & Neural Networks

Soft Skills:

- Leadership
- Public Speaking
- Communication
- Team building and mentoring
- Public Relations & Administration
- Critical & Analytical Thinking

CERTIFICATIONS

- Programming in Java (NPTEL: IIT - Kharagpur)
- Introduction to Operating Systems (NPTEL: IIT - Madras)
- Fundamentals of Object Oriented Programming (NPTEL: IIT – Roorkee)

LANGUAGES:

- **ENGLISH** - Full Professional Proficiency
- **HINDI** - Full Professional Proficiency
- **TAMIL** - Full Professional Proficiency

- **KANNADA** - Full Professional Proficiency
- **TELUGU** – Limited Working Proficiency
- **GERMAN** - Limited Working Proficiency
- **SANSKRIT** - Limited Working Proficiency