





# Siraj TM

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**Gender:** Male **Date of birth:** 30/07/2003 **Nationality:** Indian

## WORK EXPERIENCE

- [ 01/11/2024 – Current ]

**Intern**

*Dr.Raji Susan Mathew*

**City:** Thiruvananthapuram | **Country:** India

Developing light models for Quantitative susceptibility Mapping reconstruction of Magnetic Resonance Imagery.

**Relevant Skills:** Computer Vision | Signal Processing | Segmentation | Model Evaluation

**Frame Works Used:** Pytorch
- [ 01/05/2024 – Current ]

**Summer Intern**

*Dr.Biplab Banerjee, Indian Institute of Technology Bombay*

**City:** Mumbai | **Country:** India | **Name of unit or department:** Center for Machine Intelligence and Data Science

Utilized the ChangeCLIP architecture to perform Change detection and segmentation on bitemporal remote sensing images, by leveraging the CLIP model's powerful image-text modelling capability.

**Relevant Skills:** Computer Vision | Natural Language Processing | Zero-shot Learning | Segmentation | Model Evaluation

**Frame Works Used:** Pytorch | MMSeg
- [ 08/01/2024 – Current ]

**Intern**

*Dr.Chandrakala Meena, Indian Institute of Science Eductaion and Research Thiruvananthapuram*

**City:** Thiruvananthapuram | **Country:** India

Analysed faculty hiring networks between Institutes in India and globally ranked Universities utilizing data obtained using the OpenAlex API.

**Relevent Skills:** Data Analysis | API integration | NetworkX | Parallel Programming

**Frameworks used:** NetworkX | concurrent.futures library
- [ 05/05/2023 – 03/08/2023 ]

**Summer Intern**

*Dr.Chandrakala Meena, Indian Institute of Science Eductaion and Research Thiruvananthapuram*

**City:** Thiruvananthapuram | **Country:** India

Modelled Chaotic systems with 2000 timestep accuracy using Recurrent Neural Networks and LSTMs.

**Relevant Skills:** Scientific Computing | Machine Learning | Non-Linear Dynamics | Recurrent Neural Networks

**Frameworks Used:** Tensorflow with keras

## EDUCATION AND TRAINING

- [ 14/12/2021 – Current ]

**BSMS - Data Science Major**

*IISER Thiruvananthapuram* [iisertvm.ac.in](https://iisertvm.ac.in)

**Address:** IISER Thiruvananthapuram, Maruthamala, Vithura, 69551, Thiruvananthapuram, India | **Field(s) of study:** Data Science

Relevent Courses:

Machine Learning I & II | Data Science Lab I & II | Database Management Systems | Design and Analysis of Algorithms | Data Structures | Scientific Computing | Mathematical Statistics | Optimization Techniques | Discrete Mathematics | Mathematical Modelling

MS CGPA: 8.25/10 (55 Credits, Ongoing)

Total CGPA: 7.77/10 (131 Credits)

## DIGITAL SKILLS

### My Digital Skills

#### Programming

Python | C++ | C | R | CUDA (GPU) | Linux | MySQL

#### Data and Network Analysis and Cleaning

NetworkX | Pandas | Numpy | Python visualization libraries (Matplotlib & Seaborn) | Sci-Kit Learn

#### Deep Learning

Pytorch | Tensorflow | Keras | Computer Vision | NLP

#### DevOps

Visual Studio Code | Git

#### Presentation

PowerPoint | Google Apps; Drive, Docs, Sheets, Presentation, Calendar, Meet, Jamboard, Classroom | Canva

## HONOURS AND AWARDS

[ 23/03/2022 ]

### Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship Awarding

**institution:** Department of Science and Technology, Government of India

INSPIRE is granted to the top 1% of successful students in terms of aggregate marks in his/her Class 12 board exam, who are enrolled in courses of Natural and Basic Sciences at the BSc, BS, and Integrated MSc/MS level in the same year of passing Class 12. It is renewed each year under the condition that the student applying for renewal scores at least 60% marks or 7.0 GPA on a 10.0-point scale in the annual examinations each year (or 2 semesters).

**Link:** <https://dst.gov.in/inspire-scheme-innovation-science-pursuit-inspired-research>

## LANGUAGE SKILLS

**Mother tongue(s):** Malayalam

**Other language(s):**

**English**

**LISTENING C2 READING C2 WRITING C2**

**SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2**

**Hindi**

**LISTENING B2 READING B2 WRITING C2**

**SPOKEN PRODUCTION B1 SPOKEN INTERACTION B2**

**Arabic**

**LISTENING A2 READING B2 WRITING B1**

**SPOKEN PRODUCTION A1 SPOKEN INTERACTION A2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## MANAGEMENT AND LEADERSHIP SKILLS

### Leadership Qualities

- Spearheaded Inquisitio 5.0 The Inter-Collegiate science treasure hunt 2023
- Headed the Content team for Ishya 2024 The inter-collegiate Science Fest of IISER Thiruvananthapuram.
- Member of the Student Affairs Council (SAC) for the year 2023-24.
- Member of the Cultural Council (2023-24).
- Active member of the Gavel Club under Toastmasters International from 2016-17 at New Al-Wurood International School, Jeddah Saudi Arabia

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Extra Curricular Activities

- Core Committee member of Literature and Fine Arts Club.
- Student Volunteer, managing Student Run Mess, IISER Thiruvananthapuram.
- Core Committee Member of Sopanam, The official magazine club of IISER Thiruvananthapuram.
- Editor at Ether Magazine.
- Represented IISER Thiruvananthapuram for JAM and Debate at Inter-IISER Cultural meet 2022 at IISER Pune.
- Part of the debate team for Inter IISER Cultural Meet 2023 at IISER Mohali.

## HOBBIES AND INTERESTS

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### Hobbies

- Competitive Coding: Occasionally finds time to turn bugs into features
- Reading: Avid reader of Literature, Self-Help books, Encyclopaedias, history and Politics
- Debater: Always passionate about bringing about a better argument through discussion
- Traveler/Hiker: Ready to climb any mountain for a better view
- Numismatist: Loves collecting coins and etching them on paper.
- Geopolitics enthusiast: Closely monitors and studies the geopolitical chess board