

RAMYA SUNDARAM

STUDENT

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 Kalavakkam , Chennai, Tamil Nadu, 603110

As a dedicated, passionate and motivated third-year student pursuing a B.Tech degree in Artificial Intelligence and Data Science, I aspire to continuously expand my expertise in computer vision, machine learning and data science.

EXPERIENCE

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National Institute of Technology Trichy (NIT-T)

May 2023 - July 2023

Research Intern
 - I have undertaken the development of multiple deep learning models designed for precise brain tumor detection and segmentation.
 - Under the mentorship of Dr. R. Mohan, I acquired extensive expertise in implementing state-of-the-art convolutional neural network (CNN) architectures, including UNET and its various variants



Indian Institute of Information Technology (IIIT-N)

Dec 2023 - Present

Research Intern
 - Explored YOLO-based models, transfer learning, and vision transformer models for novelty and high accuracy for breast cancer detection and classification under the guidance of Dr.Jitendra Tembhurne.
 - Integrated various image processing techniques (LBP, histogram equalization, Contourlet Transform etc). Utilized SVM and other machine learning techniques for enhancement.
 - Explored FedAvg, FedProx, FedSgd ,DWV and other algorithms in federated learning.

EDUCATION



Shiv Nadar University, Chennai

2021 - Present

B.Tech. - Artificial Intelligence & Data Science

CGPA: 8.13/ 10.00



Indian School al Ghubra, Muscat

2006- 2021

High School Diploma , Science stream (CBSE-Delhi board)

12 th | CBSE | Percentage: 94.20

10 th | CBSE | Percentage: 93.40

PROJECTS



Employing Multiple Instance Learning for the classification and localization of breast cancer in histopathology images

Aug 2023 -present

The project explores multiple MIL methods (APR, DD, Citation-kNN, SVM, non-parametric, MILCNN) for histopathological breast cancer classification.



EFFICIENT BRAIN TUMOUR SEGMENTATION USING VARIANTS OF U-NET

May 2023 - July 2023

The project utilizes an approach combining the 3D U-Net architecture with added components such as Fully Convolutional Networks (FCN), Inception modules, and Depth Wise Separable Convolutions for the efficient segmentation and utilization of brain tumour .

BLOGGING APPLICATION

Feb 2022 - March 2022

I've created a user-friendly blogging application using Flask and SQLAlchemy that includes proper authorization features. This ensures that users can securely manage their accounts and publish their content. The application provides a simple and secure platform for bloggers to write and share their posts, while ensuring that only authorized users have access to their accounts. This helps maintain the privacy and security of their content and interactions within the application.

ACHIEVEMENTS

- **Published a book** named "No Matter the Catastrophe" available on amazon and flipkart.
- I have worked as the **General Administrator** for ssn-snu model united nations in both , the logistics and the design team . I was appointed the **liason officer** for the conference in the year 2023.
- I have successfully completed 6 out of 8 **grades in Electric keyboard** through Trinity college london.
- Placed **second** in the national level writing competition of annual ssn instincts 2022
- Participated at multiple model united nations conferences as a delegate .
- **Silver medalist** - placed second in the annual inter year carrom contest in college
- Double commendation and commendation **merit certificates** for academic excellence in high school
- Appointed **Point of contact** in the english literary club .
- Completed **7 grades** in Abacus.

CERTIFICATIONS

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| ● ADVANCED LEARNING ALGORITHMS
Key Skills: Neural Networks ,Deep Learning, Python | COURSERA |
| ● Machine Learning with Python: Foundations
Key Skills: Machine Learning, Python | COURSERA |
| ● Tableau for Data Scientists
Key Skills: Tableau, Data Visualization | COURSERA |
| ● Data Science Statistics: Applied Inferential Statistics
Key Skills: Statistical Data Analysis ,Statistics | INFOSYS |
| ● JAVA , JAVASCRIPT , SQL ASSESMENT TEST
Key Skills: Java , Javascript , SQL Programming | HACKERRANK |
| ● Accenture
Intern (Virtual Experience)
Data Analytics and Visualization | FORAGE |
| ● KPMG
Intern (Virtual Experience)
Data Analytics, Consulting | FORAGE |

SKILLS

- HTML,CSS,React, Python,C, SQL -Programming languages
- Deep learning
- Computer vision
- Database management
- Data analysis and vizualization
- Data structures and algorithms