

MAYUKHA MANDYA AMMANGATAMBU

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Education

BVRIT HYDERABAD College of Engineering For Women

Hyderabad, India

Bachelor of Technology - Computer Science and Engineering; CGPA: 8.14/10.0.

2020 - 2024

Experience

Indian Institute of Technology, Hyderabad

September 2023 - Present

Research Intern

- Contributed in developing optimisation algorithms in Federated Learning for improved performance and privacy.

National Institute of Technology, Tiruchirappalli

May 2023 – July 2023

Research Intern

- Proficiently leveraged Natural Language Processing (NLP) techniques to extract and structure vital information from resumes, optimizing data entry processes.

Projects (MayukhaMandya)

OSAN -TB | *Python, Deep learning, Data augmentation*

September 2023

- Developed breakthrough deep learning algorithm OSAN(Optimal Sequential AlexNet), achieving **99.6%** accuracy in classifying TB from chest X-rays.

Bone Fracture Detection | *Python, Image Processing, Deep Learning.*

Jan 2023 - Present

- Mentored by Dr. Kumar Rajamani, developed a state-of-the-art bone fracture detection system on the MURA dataset - **Stanford ML group.**

Patents

- [Mandya Mayukha]. [2023]. [A system and apparatus for advanced enhanced neural style transfer (NST) method leveraging ResNet architecture for high-fidelity image synthesis]. [202341066332], [2023].India

Publications(Scopus Indexed)

- Sundari,M, Mayukha,Mandya(2023).Title: "A Deep Learning Approach for Enhancing Tuberculosis Classification Leveraging Optimized Sequential AlexNet (OSAN)" Journal: International Journal of Computing and Digital Systems(Under Publication)
- Sundari,S, Mayukha,Mandya(2023).Paper: "Dynamic gender recognition using YOLOv7 with minimal Frames Per Second".In: International Journal of Modern Physics-B.(Under Publication)
- Sundari,S, Mayukha,Mandya.(2023).Paper: "AI-based personalized drug treatment". In:Artificial Intelligence and Machine Learning in Drug Design and Development.Publication Date : January 2024
- Sundari,S, Mayukha,Mandya(2023).Paper: "Process and Applications of Structure Based Drug Design". In: Artificial Intelligence and Machine Learning in Drug Design and Development.Publication Date : January 2024

Conferences and Certifications

- Attended the CREX symposium(Computer Science Research Exploration), Birla Institute of Technology and Science Pilani at Hyderabad Campus.

May 2023
- Professional Certification in Advanced Data Science and Artificial Intelligence by Centre for Continuing Education, Indian Institute of Technology Madras.

2022 - Present

Skills & Achievements

- **Technical skills:** Python, Open CV, MediaPipe, Pandas, TensorFlow, Scikit-learn, MySQL, C++.
- Best Paper Award at BVRITHCON 23 - International Conference on Big Data and Virtual Reality, Information and Communication Technologies 2023
- Secured a spot in the Microsoft Learn Student Ambassador (MLSA) program in 2022, one of the most competitive programs in India with over 10,000 applicants.
- Was awarded a Special Mention in International Press at Chaitanya Bharathi Institute of Technology Model United Nations 2022 for my performance as a Reporter.