

Sri Gayathri Devi Ilango

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EDUCATION

- **College of Engineering Guindy, Anna University** Chennai, India
Bachelor of Engineering - Computer Science and Engineering; GPA: 8.86 August 2018 - April 2022
Courses: Data Structures and Algorithms, Databases, Networking, Operating Systems, Artificial Intelligence.

EXPERIENCE

- **Citi, India** Chennai, India
Software Developer (Full-time) July 2022 - Present
 - **Credit Risk Analysis:** Monitoring Limit Utilization and Exposure of Institutional Clients to provide Regulatory Reports for Risk Managers.
 - **Contract Prediction:** Working on application that predict cost-to-close values of each transactions using Machine Learning.
- **Solarillion Foundation** Chennai, India
Undergraduate Research Assistant (Part-time) Apr 2020 - March 2022
 - **Deep Learning:** Worked on a Graph Learning solution for early detection of fake health news; Research on Satellite Imagery and Geospatial Intelligence.
 - Mentored students in machine learning research and graded assignments.
- **Centre for Cognitive and Brain Sciences** IIT - Gandhi Nagar, India
Research Intern (Full-time) May 2021 - July 2021
 - **Computational Neuroscience:** Built a deep learning model that simulates spatiotemporal stimulus from neuronal responses of tactile fibers. Utilized in the study of how nerve fibres encode tactile information.
- **Sentalyze.ai** Pune, India
Software Developer Intern (Part-time) Oct 2020 - Feb 2021
 - **Natural Language Processing:** Built an attention-centric opinion mining engine that extracts subjective information with sentiments using a content plan induction model that is driven by aspect and sentiment embeddings.

SKILLS SUMMARY

- **Programming/Scripting:** Python, C++, Java, SQL, Bash, MATLAB
- **Frameworks:** Flask, Spring-Boot, React, Git, PyTorch, Docker, Numpy/Pandas, Keras, Maven
- **Other Skills:** Leadership, Work Ethic, Conflict Resolution, Situational Awareness, Collaboration

PUBLICATIONS/ ACHIEVEMENTS

- **SOMPS-Net: Attention-based social graph framework for early detection of fake health news:** Early detection of medical fake news outperforming state-of-the-art with 17.%. Published at the 19th Australasian Data Mining Conference.
- **Semantic Framework for Query Synthesized 3D Scene Rendering:** Rendering 3D scenes from single view 2D image using relational Query Network. Accepted at the International Conference on Digital Image Processing and Vision (ICDIPV 2023)
- **Machine Learning Hackathon:** Secured second place for modeling a personalized health assistant based on behavioral prediction at the inter-college symposium.
- **Engage Mentorship Program, Microsoft India:** One of 50 candidates in India, trained on Agile Software Methodologies for Artificial Intelligence and Cloud Integration.

SELECTED PROJECTS

- **Cognitive Reasoning by Visual Interrogation in Images:** A visual machine understanding model that enables automatic comprehension of images with query network.
- **Unsupervised Urbanisation Prediction using Satellite Imagery :** Prediction and interpretable mapping of urbanisation patterns using multi-spectral spatio-temporal images.
- **Localization of cars for autonomous driving:** Deep learning model that enhances self-driving cars with pose estimation of precise coordinates using EfficientNet Algorithms

RESPONSIBILITIES AND EXTRA CURRICULAR

- **Content Secretary at Computer Science and Engineering Association (CSEA):** Handled event frameworking and industrial relations; Initiated department magazine.
- **Student Clubs:** Tech Secretary at CEG Tech Forum (CTF); Mentoring students focussing CS concepts and internship guidance at ACM - Student Chapter.
- **Volunteering:** Organised social awareness camps through National Service Scheme(NSS) and volunteering at Children Education and Welfare Program - Vaazhvi, NGO