

Sowmiya Sree Shubbarayan

CSE Undergraduate

Passionate about burgeoning technologies, such as XR, AI and UI/UX; Envision working at the intersection of these areas

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🌐 sowmiya.netlify.app/

🐙 github.com/sowmiya-2805

EDUCATION

Bachelor of Engineering (CSE)

College of Engineering, Guindy, Anna University

08/2018 - Present

8.3/10 (till Sem 6)

Higher Secondary Education

Bharathi Vidya Bhavan

06/2016 - 05/2018

96.75%

WORK EXPERIENCE

Research Intern in AR/VR

IIT Madras Research Park

02/2021 - Present

Chennai, India

Tasks/Roles

- 3D Simulations for medical education

Web Designer and Developer

Mara Vascular and Interventional Radiology

04/2020 - Present

Oklahoma City, Oklahoma

<http://www.maravir.com/>

Tasks/Roles

- Web design, including UI/ UX, and implementation on AWS
- 3D simulations for patient education

Research Assistant & Teaching Assistant

Solarillion Foundation

04/2020 - Present

Chennai, India

Tasks/Roles

- Research on Machine Learning – Medical Fake News Detection via Behavioral Analysis and Satellite Imagery Analysis
- Member of website development team

Research Trainee

Diginique Techlabs, IIT Roorkee

03/2020 - 04/2020

Roorkee, India

Tasks/Roles

- Worked on ML, AI and Python scripting
- Built model for handwritten digit recognition

PUBLICATIONS & PRESENTATIONS

SOMPS-Net: Attention based social graph framework for early detection of fake health news

Presented at The 19th Australasian Data Mining Conference, Brisbane, Australia on December 15th 2021

SKILLS

C

C++

C#

Python

JS

HTML/CSS

PHP

Tensorflow

PyTorch

Python-Flask

ReactJS

Unity 3D

AWS

Figma

Adobe Creative Suite

PERSONAL PROJECTS

Reconstructing 3D simulations from 2D images (10/2021 - Present)

- A neural model for transforming 2D images to 3D models from minimal input (views) to improve machines' cognition

Urbanization mapping from Satellite Imagery analysis (08/2021 - Present)

- A deep learning network that processes and analyzes satellite images to get insights into the trends of urbanization over a few years

Generating 3D print models from biomedical images via volumetric segmentation (01/2021 - 05/2021)

- A comprehensive workflow that combines image segmentation and 3D simulations to extract tumor from MRI brain scans and to devise model for 3D printing

Website for Xceed, CTF, CEG (01/2021 - 03/2021)

- Designed and coded the UI/UX for Xceed, the outreach program of the CEG Tech Forum
- <http://xceed.kurukshetraceg.org.in/>

Sentiment Analysis of Tweets using Lexicals and Semantics (10/2020 - 12/2020)

- Machine Learning model to analyze the reach of an entity via sentiment analysis of tweets fetched in real-time using lexical and semantic concepts

Overseas@22 (02/2020 - 04/2020)

- University admissions guidance portal using DBMS

CERTIFICATIONS

Neural Network and Deep Learning

Deeplearning.ai, Coursera

C# programming and Unity

University of Colorado System, Coursera

Biomedical Visualization

University of Glasgow, Coursera

OTHER INTERESTS

Wildlife Photography

Tiger Conservation

Glass painting

Dancing