Sowmiya Sree Shubbarayan

CSE Undergraduate

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

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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*

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
- Teaching Assistant
- 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 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

Wildife Photography   Tiger Conservation

Glass painting   Dancing