SHANGETH *RAJAA*

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About Me

I am a student of BITS PILANI persuing BE Electrical and Electronics Engineering , Masters in Mathematics. I have a strong knowledge of mathematics of Deep Learning and optimizing algorithms. I have advanced level experience of Python programming language for Data Science, Software Development and Web Development. I am currently working with research in Optimization and Sequence predictions with Deep Learning.

Education

- Shri Maharishi Vidya Mandhir, Dindigul, TN, India 9.8/10.
- Maharishi Vidya Mandhir SSS, Chennai, India - Computer Science, 91%.
- Deep Learning Nanodegree.
- BITS Pilani, India – B.E Electrical and Electronic Engineering, 2021.
                                M.Sc Mathematics, 2021.

Position of Responsibility

- **Publicity Manager**, Department of Publicity and Public Relations, BITS Pilani.
- **Events Manager**, Waves Controls, BITS Pilani.
- **Mentor** – PMP, BITS Pilani.

Work Experience

- **AI Developer** at OpexAI, Hyderabad, India.
   - Worked with Research of Self Driving Cars and products using computer vision.
 - Data gathering| processing| DL model| Transfer learning|Model to Product Pipeline.
- **Software Developer** at KGLLP Fintech, Bangalore, India.
   - Developed Software pipelines for end to end data processing for financial data and deep learning for finance stock prediction.
- **Computer Vision Developer** at Science and Technology Center,Chennai.
   - Developed a computer vision security system for a government facility.
- **Subject Expert** – Advanced Mathematics and Calculus at Chegg India.
- **Tutor** at toppr.com.

Research

- Optimizing algorithms for machine learning.
- Feature extractor for Sequence Model Deep Learning.
- Voice Recognition and unsupervised clustering(current)
- Frame and pose prediction(current)

Skills

• C Programming, C++, Python	• Web Development
• Shell Scripting	FrontEnd : HTML,CSS,JavaScipt
• Statistics	Backend : Python(Flask,Django)
• Machine Learning	• Networking & Network Security
• Deep Learning	• Socket Programming
• Tensorflow,Keras, PyTorch	• Version Control System
• Computer Vision	• DataBase
• Natural Language Processing	• Arduino & Raspberry Pi
• Cloud Computing	

Achievements

- *FacebookAI's DeepLearning Scholar*
- *KPIT Autonomous Tech Scholar*
- *My project was chosen as top projects in safelty category by Facebook among a ML community of 10,000 candidates in Facebook's Pytorch Schlorship.*

Projects

- **Multitask Learning for Face characterization**

- **Self Driving Cars steering angle prediction** – *GitHub*

- **Deep Learning for signature verification**

- **Hand Gesture Recognition with Deep Learning(Computer Vision)**

- **Vehicles and Pedestrian detection for self driving cars** – *GitHub*

- **Traffic Sign Recognition for Self Driving Cars** – *GitHub*

- **Twitter Sentiment Analysis** *- A Web App to analyse tweets using Natural Language Processing. twittersentimentanalysisnltk.herokuapp.com GitHub Repository*

- **Computer Vision Security System** – *A Computer Vision Server for Security System of Sciene and Techonology Center ,Chennai. GitHub Repository*

- **WeBuilder** – *A basic web app to show live HTML,CSS,JavaScript – shangeth.github.io/ webbuilder*

- **Pyrev** – *a python reverse shell which can allow a server to access multiple devices through local network or internet - github.com/shangeth/pyrev*
- **SockChat** - a simple and fast GUI chatting app , inside the network or through internet , with Database - github.com/shangeth/SockChat
- *And more on GitHub*