

SHANGETH RAJAA

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Education

- *Deep Learning Nanodegree - Udacity.*
- *Deep Reinforcement Learning Nanodegree - Udacity*
- *BITS Pilani, India – B.E Electrical and Electronic Engineering, M.Sc Mathematics.*

Position of Responsibility and Volunteering

- *Academic Mentor – PMP, BITS Pilani.*
- *Mentor - Udacity Pytorch Deep Learning Nanodegree.*

Presentations and Talks

- *Multi tasking learning for Face characterization - Online Talk on the topic with target audience of 4000 selected by FaceBook AI and Udacity.*
- *Convolutional Feature Extraction and Neural Arithmetic Logic Units for Stock Prediction at ICACDS 2019.*

Work Experience

- **ML Facilitator/Instructor**, [Google Explore ML Academy](#) at Google AI, India.
- **Research Collaborator** - Remote research collaborator under Dr.Isabelle Guyon at INRIA Paris.
- **Deep Learning and Computer Vision Content Developer** at Big Vision LLC, California.
 - Develop course content for deep learning courses of OpenCV.org
- **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.
- **Subject Expert** – Advanced Mathematics and Calculus at Chegg International.

Publications and Conferences

- [Convolutional feature extraction and Neural Arithmetic Logic Units for Stock Prediction](#) at ICACDS-2019.
- Overview and unifying conceptualization of Automated Machine Learning at **ADS, Germany.**

Research

- Character level and sub-word level models for General NLP Task with non availability of task specific data(eg: Library AI Assistant)
- Phoneme - sub word level model for speech recognition.
- Multi-distribution Generative model for Speech.

Skills

<ul style="list-style-type: none">● C Programming, C++, Python● Tensorflow, Keras, PyTorch● Machine Learning● Deep Learning● Computer Vision● Natural Language Processing● Cloud Computing(AWS, GCP)	<ul style="list-style-type: none">● Web Development● FrontEnd : HTML,CSS,JavaScript● Backend : Python(Flask,Django)● Socket Programming● Version Control System(git)● Raspberry Pi
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Achievements

- *FacebookAI's Secure and Private AI Scholar*
- *FacebookAI's Deep Learning Scholar*
- *KPIT Autonomous Tech Scholar*
- *My project was chosen as top projects in safety category by Facebook among a ML community of 10,000 candidates in Facebook's Pytorch Scholarship.*

Projects (all the projects are available at [GitHub](#))

- *Pneumonia Diagnosis with Deep Learning*
- *Domain Transfer using Generative models/Images and Speech)*
- *Multitask Learning for Face characterization*
- *Self Driving Cars steering angle prediction*
- *Deep Learning for signature verification*
- *Seq2Seq Model for Neural Machine Translation.*
- *Generative Recurrent Neural Network.*
- *Hand Gesture Recognition with Deep Learning*
- *Vehicles and Pedestrian detection for self driving cars*
- *Traffic Sign Recognition for Self Driving Cars*
- *Twitter Sentiment Analysis - [twittersentimentanalysisnltk.herokuapp.com](https://twitter-sentiment-analysis-nltk.herokuapp.com)*
- *Computer Vision Security System*
- *And more projects on [GitHub](#)*