

EDUCATION

Master of Science (M.Sc), Artificial Intelligence And Robotics Course

Sapienza University Of Rome

2018 - 2020

CGPA: 9.60/10

Bachelor of Engineering (B.E), Computer Science

MES College of Engineering

2011 - 2015

Percentage: 60.00%

JOBS

Part-Time Online Coding Tutor

Qin1, Virtual

Oct 2019 - Present

A part-time job where I teach students python, android app making only on weekends. These students are from the USA and various parts of India. I have successfully taught more than 40 students and will keep increasing as the weekends come by.

Software Development

L&T Technology Services, Mumbai

Dec 2015 - Mar 2018

I had received an opportunity in working in MNC for 2.3 years, completely working in Java domain, JSP languages and Enovia.

I have worked on client location being a Defence Sector, India and also working on International Projects from US and Canada.

INTERNSHIPS

Java Development

Alpine Interactives, Pune

May 2018 - Jul 2018

Working in coordination with the CEO and CTO for creating various products for satisfying clients need. Developing, Testing and Reviewing of codes during product development.

PROJECTS

Human Robot Interaction using Pepper Robot

Feb 2020 - Jul 2020

<https://github.com/momo1901/Airport-Scenario-HRI.git>

We created a simulator using which we can traverse the Pepper robot and perform various human-robot interactions. The main purpose was to make the feeling of robotic human interaction as real as possible. Python & libraries like Qibullet were used.

3D Rendering of the Abdominal Medical Phantom

Jul 2019 - Jun 2020

Created a 3D model of the CIRS Abdominal Medical Phantom. This Phantom model was made with utter precision & accuracy as many medical robotics experiments depend on it. The model was created using Slicer3D & exported in VREP for robotic experiments.

Self Attention GAN using TF 1.15

Feb 2020 - Jun 2020

I created a Self Attention GAN using TensorFlow 1.15 and trained it on various datasets like Flower datasets and then by increasing the optimizing I trained on celeb dataset & it was observed that features were factorized better than older results.

Cycle GAN using TF 1.14

Aug 2019 - Jan 2020

We recreated Cycle GAN so as to produce much better results with images other than the ImageNet dataset. We used Jupyter Notebook for it and python 1.15 was used. We ran this GAN on various datasets like Apple Orange, Scenic, etc.

Noise Monitoring IOT Application

Apr 2019 - Jun 2019

Using Raspberry Pi 3 board, and microphone to detect noise and monitoring the decibels of noise in Android Application.
Noise data generated is send to IOT Watson using Apache Edgent and stored for future classifications and modelling.

Bounce Game using WebGL Technology

May 2019 - Jun 2019

<https://momo1901.github.io/Bounce-Game-WEBGL/>

Using THREE.JS and Box2dWeb technology to create a version of bounce game, where in user makes a ball move out of maze avoiding the moving obstacles. Addition of various animations and game logics to make game interesting and user friendly.

SPACEINVADERS game using Deep Double SARSA

Feb 2019 - Mar 2019

Developing a deep learning network using Deep Double SARSA algorithm. The task mainly consisted of creating a CNN model by passing the present image of game as input and selecting the action as output and simultaneously updating the Q tables as well.

HMM model for Weather Forecast

Feb 2019 - Mar 2019

Understanding the working and requirements for creating the HMM models.
• Creating an HMM model for generating Direct Sampling and then finding their Forward and Backward Chaining.

Malware Analysis using Machine Learning Algorithm

Jan 2019 - Feb 2019

Create a Malware detection algorithm from a given set of malware files.

By analyzing and extraction of relevant data, applying those data to SVM and Naïve Bayesian Classifier for classifying the data as malware or not.

SKILLS

Java

Intermediate

HTML

Intermediate

Machine Learning

Intermediate

Artificial Intelligence

Intermediate

Linux

Intermediate

Computer Vision

Intermediate

JavaScript

Intermediate

Python

Intermediate

Robotics

Beginner

Teaching

Advanced

Robotic Process Automation (RPA)

Intermediate

Neural Networks

Intermediate

WORK SAMPLES

GitHub profile

<https://github.com/momo1901>

ADDITIONAL DETAILS

Greed for learning and a taste eater, urf foodie I am a lot.

Attained certificate in 'Deep Learning using Tensorflow' from CognitiveClass.ai

<https://courses.cognitiveclass.ai/certificates/06406c98871f4e2eabee58e4e9f0d7e2>