VEERA BRAHMA CHARY

PG Diploma in ARTIFICIAL INTELLIGENCE (PG-DAI), CDAC Noida

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Skills

Python 3+	Golang
Linux (basic)	NLP
TensorFlow	Keras
HTML	JavaScript
Face Object Detection	
PySide2	Qt
QuTip	QiSkit

Domain	Experiences	Technical	Industry
Researcher	**Project Fellow** @ IICT, Hyderabad Nov'2013 – Feb' 2018	Origin 8 Python 3+ Excel	Material Sciences R&D Industry
Teaching	**Assistant Professor** @ NIT, Group of NEC Sep'2010 – Jun'2011	MS Office	Education

Projects

Chat Bot (with NLTK, TF-IDF, scikit-learn cosine similarity)

- Chat bot developed with ML and AI to make conversation and to provide answers as per their requirement by making Chat Bot using NLTK which is used to build programs in python with WordNet
- By doing text processing libraries for classifying, tokenizing, stemming, tagging, parsing and semantic reasoning. TF-IDF is a statistical method used to evaluate the frequency of words based on its weight in document. Here I did a normal basic chatbot using all these libraries. I should do more work on it.

Face and Object detection (with OpenCV, r-CNN)

- Face Detection – Ability to detect the location of face in the frame and the output will get in the bounded box coordinates of the detected faces. Face Recognition – By Comparing multiple faces together to identify the specific persons face precisely using embedding vectors
- Emotion and Object Detection – Classifying the emotions on the face such are happy, surprise, angry, sad, normal etc. and identifying the objects using r-CNN

Speech to Text to Execution (with Speech Recognition and Google Speech API)

- By the combination of Speech Recognition with Google speech API and OS module I have been executed the desktop default applications using voice based command to the program without typing or click on.
- Speech Recognition – which can recognize the voice from the user and Google speech API used to convert the text in the proper way and the OS module takes the input as text and explores the relevant installed application. Examples are Microsoft Cortana etc.

File Explorer (with PySide2, Qt5)

- PySide2 – python module biding of the cross-platform GUI toolkit Qt which is used for UI framework.
- Qt 5 – which is alternative to the Tkinter python standard library to make certain windows for explorer and other related frames.
- My work to make an alternative to open explorer and also video player should play within the explorer.

Quantum Computing (with QuTip, QiSkit)

- Basic Quantum Circuit with Quantum Framework QiSkit (IBM) on my computer. I have had Qiskit circuit code but need to do more work on it to have a complete idea of QiSkit.
- I have a little understanding of Quantum Dynamics and also QuTip is a framework for numerical simulation and computation of the dynamics of both open and closed quantum systems.
- I followed the documenataions of QuTip and QiSkit by myself and I implemented the code which makes me understandable after several times reading and executing the Quantum Dynamics code using QuTip framework in my PGDAI project work.

Education

Center for Development of Advanced Computing (CDAC), Noida (2019 – 2020)
PGDAI – PG Diploma in ARTIFICIAL INTELLIGENCE **67% - Grade B**

Acharya Nagarjuna University – ANU PG Center, Nuzvidu (2008 – 2010)
MSc – PHYSICS **71.5%**.

Magadh University – Gaya College, Gaya (2004 – 2007)
BSc – MATHS **63.8%**

Andhra Pradesh Board of Intermediate Education, Bhashyam Jr College, Guntur (2001 – 2003)
12th – HSc (M.P.C) **66.7%**

Andhra Pradesh Secondary School Education, B.H.H.G.J.C, Guntur (2000 – 2001)
10th – SSC General **72.6%**

Material Science Publications

- Mahapatra DK, Tijare LK, **Veerabrahmachari Gundimeda** et.al. "Rapid Biosynthesis of Silver Nanoparticles of Flower-like Morphology from the Root Extract of Saussurea lappa" Research & Reviews: A Journal of Pharmacognosy. 2018, 5, 1, 20–24.

- Arunkumar S., **Veerabrahmachari Gundimeda**., "Realizing Synergy between In2O3 Nanocubes and Nitrogen Doped–reduced Graphene Oxide: An Excellent Nanocomposite for Selective and Sensitive Detection of CO at Ambient Temperatures" ACS Appl.Mater.Interfaces 2017, 9, 31728-31740.

- M. Sirisha, **G. Veerabrahmachari**, "Correlating the optical absorption of nanostructured SnO2: Au system with its gas sensing behavior" Int.J.ChemTech Res., ICONN-2015, 1399.

ID Information

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