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## GEORGE V JOSE

### SUMMARY

- My basic interest is in Machine Learning. Specifically, in Deep Learning, Neural Networks and Artificial Intelligence.
- Expert in Reinforcement learning, Deep Neural Networks and Machine Learning Algorithms.
- Experienced in working at a High-Performance Computing lab and actively involved in training Neural Network algorithms.
- Currently researching Meta-Learning with Reinforcement learning and Initializer for Neural Network.

### EDUCATION

#### **PRESENTLY: RAJAGIRI SCHOOL OF ENGINEERING AND TECHNOLOGY, KAKKANAD, BTECH COMPUTER SCIENCE (2015-PRESENT)**

Started the course in August 2015 and currently in the 7<sup>th</sup> semester.

- Presently doing research in Deep Reinforcement Learning, Meta-Learning and Deep Neural Networks for scheduling algorithms.
- **Built a Machine Learning Lab** at CFRCE (Centre for Fundamental Research and Creative Education, Bangalore).
- **Visiting mentor** for students who pursue Machine Learning and Deep Learning at CFRCE. Also created an [Artificial Intelligence syllabus](#) for beginners to AI.
- **Conducted a one-day workshop on "Introduction to Deep Learning with TensorFlow"** at Rajagiri School of Engineering and Technology, Kakkanad (09/02/2018).
- **Conducted a one-day workshop on "Introduction to TensorFlow and Deep Learning"** for Computer Science students and faculty of Rajagiri School of Engineering and Technology, Kakkanad (24/02/2018).
- **Received first prize for Cognizant Maker Hackathon** on IOT and Digital Assistance (10/04/2018).
- **Gave a lecture on Python Programming** for Computer Science students at ILM College of Engineering and Technology, Keezhillam as a resource person for a day (22/11/2017).
- Attended **#Future Conference** conducted by Government of Kerala and Smart City Kochi. (22/03/2018).
- Participated in 7th International Conference on **"Advances in Computing and Communications"** (ICACC-2017) conducted by

IEEE at Rajagiri School of Engineering and Technology, Kakkanad (23/08/2017).

- Partnering with Dr Sminu Izudheen in the application of Neural Networks in Protein Folding.
- Experienced in Cloud ML solutions from Google for Neural Network training.

#### **ST THOMAS HSS, MALAYATTOOR, HIGHER SECONDARY (2013-2015)**

Completed the 2-year course during 2013-2015. Subjects for study were Physics, Chemistry, Mathematics, Computer Science and English.

- Started using TensorFlow in its early phase and been a Community member since 2015.
- Discovered the field of Deep Learning and started learning it.
- Started working with Raspberry Pi boards and did multiple projects on the same (Listed Below).

#### **ANITA PUBLIC SCHOOL, THANNIPUZHA, MATRICULATION (2013)**

Completed matriculation in 2013. Subjects for study were Science, Social Sciences, Languages, and Mathematics. The affiliation of the school is to ICSE.

- Started exploring AI through the book "Introduction to Artificial Intelligence" by Rich Knight.
- Learned programming languages C, C++, Java, Python and JavaScript.
- Took up MIT OpenCourseWare Artificial Intelligence course.

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#### **ADDITIONAL COURSES**

##### **DEEP LEARNING – UDACITY**

Completed a course on “Deep Learning” by Google from Udacity.

##### **INTRODUCTION TO MACHINE LEARNING WITH NEURAL NETWORKS – COURSERA**

Completed a course on “Introduction to Machine Learning with Neural Networks” by Prof. Geoffrey Hinton and Andrew Ng from Coursera.

##### **INTRODUCTION TO MATLAB**

Completed a short course on “Introduction to MATLAB” offered by Entrepreneurship club of Rajagiri college during the academic year 2016-2017.

##### **INTRODUCTION TO LARAVEL – A PHP FRAMEWORK**

Completed a short course on “Introduction to Laravel – A PHP Framework” offered by CSI (Computer Society of India) on April 16, 2016.

##### **ANDROID DEVELOPMENT**

Completed an Internship Training Program on “Android Development” offered by Global Institute for Design Engineering in June 2016.

## OTHER PROJECTS

### PROJECT

- Analyzing Weight Change in Neural Networks during Training. The project involves analyzing weights during training phase. Inspired by the paper "[Deep Learning and the Information Bottleneck Principle](#)"
- Implemented TensorFlow Object Detection API for video inputs.
- Collaborated in the project "NFC Pendrive". The project involves transferring data from a pen drive using WiFi with NFC authentication. This technology allows data transfer by just tapping pen drive on host device's NFC dock. The paper was published at [IOSR-JEEE](#).
- Engaged in a project "DECA: Voice Enabled Home Automation" using Houndify API. It allows users to completely control their devices through voice.
- Completed a project "Gmail Notifier with Raspberry Pi." The project was about creating an instant notification when an email is received using a Raspberry Pi.
- Completed a project "Gesture controlled Lights" which uses Raspberry Pi and a sensor module(Ultrasonic) to change the brightness of a light by gesture controls.

### OPENSOURCE

- Contribution to [GitHub](#). Publishes most of my projects in GitHub.
- A constant [StackOverflow](#) user.

### PRESENTLY

- Doing an online course 'Machine Learning' by Stanford University from Coursera and 'Deep Learning' by Google from Udacity.

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## AWARDS

- Full scholarship and fee waiver for BTech Computer Science course at Rajagiri School of Engineering and Technology, Kakkanad.
- Received the award of merit for being in the BTech 4th semester Honors list.
- Received "MLA Pratibha Puraskar" in recognition of academic achievement in Higher Secondary.
- Received "Mathrubhumi Puraskar" in recognition of academic achievement in Higher Secondary.
- Received "Award of Excellence" for being a Full A+ holder and Class topper in Higher Secondary.

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## OTHER EXPERTISE

- **Languages known:** English, Malayalam (As Mother Tongue), Tamil.
- Cryptocurrency trader

## HOBBIES

- Experienced in tech reviewing and updated with latest news in the tech world.
- Philately, Music, and Travelling.

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## REFERENCES

### **DR. SMINU IZUDHEEN**

Head of Department, Computer Science  
Rajagiri School of Engineering and Technology, Kakkanad.  
Pin: 682039  
[sminu\\_i@rajagiritech.edu.in](mailto:sminu_i@rajagiritech.edu.in)

### **DR. B S RAMACHANDRA**

Chairman and Director  
Centre for Fundamental Research and Creative Education(CFRCE),  
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### **MS. SHIMMI ASOKAN**

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