

# MANU S PILLAI

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*A bright, talented and self-motivated machine learning practitioner who has excellent organisational skills, is highly efficient and has a good eye for detail. Has a keen interest in algorithms and data structures. Able to play a key role in analysing problems and come up with creative solutions. A quick learner who can absorb new ideas and can communicate clearly and effectively.*

## PROFESSIONAL EXPERIENCE

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### CODING BLOCKS

Teaching Assistant – Machine Learning

June 2019 – Present

### GITHUB

GitHub Campus Expert

January 2019 – Present

### INDIAN SOCIETY FOR TECHNICAL EDUCATION

Documentation Head

Documentation Executive

August 2018 – October 2018

August 2017 – March 2018

## EDUCATION

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### BHARATI VIDYAPEETH's COLLEGE OF ENGINEERING

New Delhi, India

Bachelor of Technology in Information Technology, Aug 2017 - Present

### KENDRIYA VIDYALAYA MASJID MOTH

New Delhi, India

Primary – Secondary Education, Mar 2004 – May 2016

(12<sup>th</sup> - 79.8%, 10<sup>th</sup> CGPA – 10.0/10.0)

## CERTIFICATIONS

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- Certification of Completion in Machine Learning (Aug – 2018) [[Coding Blocks](#)]
- Certification of Completion in Data Structures and Algorithms in C++ (Dec – 2017) [[Coding Blocks](#)]
- Certification of Completion in Python for Developers (Apr – 2018) [[Coding Blocks](#)]

## PERSONAL PROJECTS

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- AluConnect – Nov 2018
  - A social media app for alumni of universities to connect with students and teachers of their respective institutions. Where I have worked on FaceNet and MTCNN deep learning models for creating an image search system for the application.
- GetitValue – Apr to May 2018
  - A [web](#) application for users to get real time currency exchange rates in a graphical manner.
- Smart CCTV Surveillance
  - A smart software application for video surveillance that tracks and identify individuals in the video footages in real time. The system comprises of YOLO, DeepSort, FaceNet and parallel processing paradigm. Here the whole system works from detecting persons from video frames

and tracking them in real time, to detecting when a track is facing towards the camera and recognizing the individual using facial recognition.

- Smart Traffic Accident System
  - A smart mobile based software application for road safety surveillance that detects car crashes and alerts users through the mobile application. STAS works in 2 phases, the first one being, localizing the cars from a roadside CCTV footage, the second being, running the localized car images through a CNN model that predicts the amount of damage the car has undergone. When significant rate of damage is detected, the system pushes an alert into firebase where the application picks it up and alerts the user.

## **SKILLS**

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|--------------|---|--------------------|---|
| • Tensorflow |  | • Data Structures  |  |
| • GitHub     |  | • Deep Learning    |  |
| • C++        |  | • Python for Web   |  |
| • Python     |  | • Machine Learning |  |

## **PUBLICATIONS**

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- Depression Analysis Using Machine Learning – Sept 2018
  - [Accepted at ICCM – 2018 and published in ELSEVIER DIGITAL LIBRARY.](#)

## **ACHIEVEMENTS**

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- Winner of Smart Odisha Hackathon – 2018 (Education Sector, outside ODISHA) organized by Govt. of Odisha.
- 1<sup>st</sup> – Runner up at Smart India Hackathon – 2019
- Winner of Creatathon – 2018 organized by Internity Foundation.

## **LANGUAGES**

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- English
- Hindi
- Malayalam