# Christy Jacob

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## ABOUT ME

Love to learn,
Computer vision & ml is my jam,
Novice competitive coder,
Novice Kaggler,
Tech enthusiast,
Rookie guitarist,

## EDUCATION

### PES UNIVERSITY
B.Tech in Computer Science
Expected 2020 | Bangalore, India
CGPA: 9.95/10

### AECS MAGNOLIA
High School
Grad. March 2016 | Bangalore, India
Topped the graduating class with an aggregate of 95.4%

## SKILLS

### LANGUAGES
Python • C/C++ • Java • JavaScript
PHP • HTML • CSS

### FRAMEWORKS/LIBRARIES
OpenCV • Keras • Tensorflow
NodeJS • Firebase • MongoDB
Android Studio • MySQL
AngularJS • ExpressJS

## ACTIVITIES

### VOLUNTEERING
Helped organize Codewars (the premier competitive coding competition at TAS'16) which saw the participation of over 350 teams from across the country.
Helped organize Science Showdown(An inter college Science Exhibition at Epsilon '17).

## AWARDS

Prof. MRD Merit Scholarship
• 2017 • 2018
Ranked 1/480 students
Prof. CNR Rao Merit Scholarship
• 2017 • 2018
Awarded to top 15% of the batch
National Standard Examination in Chemistry 2016
Qualified for Nationals
Top 1% in Karnataka

## RESEARCH EXPERIENCE

### VISIO.AI | AI Researcher + Python Developer
June 2018 – August 2018 | Bangalore, India

- Developed an end to end solution for Driver Drowsiness Detection using a CNN and facial landmarks.
- Worked on data collection, preprocessing, training and tuning hyperparameters for the model.

### VISIO.AI | Machine Learning + Computer Vision Research Intern
July 2017 – May 2018 | Bangalore, India

- Worked on the development of a new system for Automatic Number Plate Recognition.
- Designed and trained CNNs and ANNs for feature extraction and prediction of plate characters.

## PROJECTS

### DRIVER DROWSINESS DETECTION SYSTEM
Python • OpenCV • Android Studio • Node.js • Mongo DB
Designed a plug and play module using Raspberry Pi, to prevent road accidents by monitoring the driver's face & eyes and alerting him/her if they appear to be sleepy. The aim was to bring functionality found in expensive cars to any vehicle.

### NUMBER PLATE RECOGNITION
Python • OpenCV • Keras • Node.js
Developed a surveillance system that performs real time number plate detection and recognition from CCTV footage. The system was designed to work with Indian Number plates which have a huge variability in fonts, dimensions, position etc.

### MULTI-LINGUAL OFFLINE DIGIT RECOGNIZER
Python • Keras • Android Studio
Currently working on a research project to perform speech recognition offline. The system is designed to help users (especially blind) dial phone numbers spoken in multiple languages.

### ASKUSPAL
Android Studio • Firebase
Lead a team, The Statesmen, to the finals of Finnovatica 2018, a FinTech Hackathon, where we built an interest free credit system for college students.

### SIGNATURE VERIFICATION
Python • OpenCV
Developed a Python app to curb down forgery by classifying a signature as forged or genuine.

### GESTURE REMOTE
Python • OpenCV • Arduino • IRLib
Developed a Python App that converts hand gestures to IR signals which can then be used to control any IR based device.