Jayaprakash Akula   **193050050**
Computer Science and Engineering   **M.Tech**
IIT Bombay   **DoB: 10/10/1997**
akulajayaprakash@gmail.com   **Mob: +91-9497248284**

Class	Examination	Institute	Year	CGPA/%
Post Graduation	M.Tech (in 1st semester)	IIT Bombay	2019	-
Graduation	B.Tech	IIT Palakkad	2019	8.48
Class XII	Intermediate Public Examination	Narayana Junior College	2015	98.2
Class X	CBSE Board	MP & EV English Medium School	2013	10

B.Tech Thesis/Project

Sahaytra application	Aug 2018 - Apr 2019
Dr. Albert Sunny	**IIT Palakkad**

- Designed a ride dispatch android application.
- The application has many features like ride sharing, ride later, ride now.
- Can trace out the location of driver.
- Built completely using free and open source libraries.
- Used MySQL, NodeJS, kotlin, android studio.

Projects

e-auction system for sports events	Sept 2019 - ongoing
Dr. Kavi Arya	**IIT Bombay**

- Design an e-auction portal for sports events.
- Players, team managers register them selves for respective categories.
- Used django, html, css and MySQL.

Handwritten notes to text conversion	Sept 2019 - ongoing
Dr. Sunita Sarawagi	**IIT Bombay**

- Convert handwritten notes to text.
- Use RNN and CNN for creating the model.
- Used tensorflow and keras libraries.

Image Captioning	Jan - Apr 2018
Dr. Mrinal Kanti Das	**IIT Palakkad**

- Designed model that can predict the caption for an image.
- Used **CNN** and **RNN** for creating the model.
- CNN was used for images while RNN for the text part.

Cricbase	Jan - Apr 2018
Dr. Sahely Bhadra	**IIT Palakkad**

- Designed a database that stores information about cricketers.
- Used **MySQL** as the database.
- The database stores runs scored, wickets taken by players ball by ball.

Internet Download Helper	Jan - Apr 2018
Dr. Piyush Kurur	**IIT Palakkad**

- Designed an application that downloads file from the internet.
- The downloader has various options like play, pause and resume.
- Used threads to pause and play the downloads.

Similarity between documents	Sept 2017 - Oct 2017
Dr. Mrinal Kanti Das	**IIT Palakkad**

- Determine similarity between two documents using **tf-idf** algorithm
- Use this to create expert systems that recommends professionals for any specified task

Compiler	Sept 2017 - Oct 2017
Dr. Piyush Kurur	**IIT Palakkad**

- Designing a compiler for a subset of C language

• Supports integer type, conditionals, loops and arithmetic operations	
Heap Memory Allocation	SEPT - NOV 2015
MR. RAMASWAMY KRISHNAN	**IIT Palakkad**

- Designed and specified a dynamic memory allocation model that describes virtual memory using an array
- Used **first fit** algorithm to allocate memory
- Achieved the following operations: Coalescence on deallocation, Defragmentation on demand

Complaint Register Application	FEBRUARY 2017
APP DEVELOPMENT	**IIT Palakkad**

- Developed an android application for registering various institute related complaints
- Used the Firebase database provided by Google to store data
- Provided user authentication and verification

INTERNSHIP / INDUSTRIAL EXPERIENCE

Xcos on web	MAY - JULY 2017
FOSSEE SUMMER INTERNSHIP	**IIT Bombay**

- Developed a web version of Xcos, a Scilab application using Python, JavaScript, C and Fortran.
- Developed a module that enables two way communication for tkscale block.
- Successful real time communication with a minimum delay of **0.01 seconds**

Chat bot service for banking	MAY - JULY 2018
INTERNSHIP	**I-exceed technology**

- Developed an app for recording voices
- Developed an offline speech recognition model.

TECHNICAL SKILLS

Programming Languages	**C, C++, Java, Python, Verilog, x86 assembly language, Standard ML, Haskell, Prolog, MySQL, Makefiles, Bash scripting**
Tools & IDE	**Eclipse, Qt Creator, Android Studio, LaTeX, Doxygen,**
Operating System	**Ubuntu, Windows 10, Android**

SCHOLASTIC ACHIEVEMENTS AND ACTIVITIES

- OCT 2016   **ACM ICPC 2016** Secured **All India Rank of 1363** solving three of the seven problems among 3000 teams applied
- JUNE 2015   **JEE Advanced 2015** Secured **All India Rank of 4608 among 117238 students**
- APR 2015   **JEE Mains 2015** Secured **All India Rank of 781 and 12 in two different papers(B.Tech and B.Arch) among 13 lakh students**
- APR 2013   **Class X Board Exams Merit certificate** for **securing A1 (highest grade)** in all the five subjects: Hindi, English, Mathematics, Science and Social Science

POSITIONS OF RESPONSIBILITY

- **AUG 2019 -NOV 2019**   Teaching assistant for CS101 programming course
- **FEB 2017 - FEB 2018**   Mess representative (IIT Palakkad)

EXTRA CURRICULAR ACTIVITIES

- **AUG 2016**   Participated in FREEDOM 70 Run organised by IIT Palakkad.
- **FEB 2016**   Participated in NSS Activity of teaching unpriviledged children in nearby villages.