**ALFRED WILLIAM JACOB**
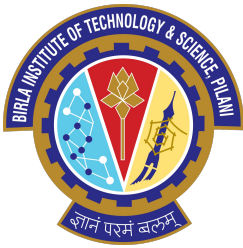
Course : **B.E. (Hons.)**, Computer Science, 2022
Email : f20180266@pilani.bits-pilani.ac.in
Mobile : 9072709659
CGPA : 8.06

## ACADEMIC DETAILS

| COURSE | SPECIALIZATION | INSTITUTE/COLLEGE | BOARD/UNIVERSITY | SCORE | YEAR |
|---|---|---|---|---|---|
| CLASS XII | Physics, Chemistry, Maths, Computer Science, English | St. Antony's Public School | CBSE | 95.2 % | 2018 |
| CLASS X | | Mar Baselios Public School | CBSE | 10 CGPA | 2016 |

## SUMMER INTERNSHIP / WORK EXPERIENCE

**App Developer, Entrepreneurship Development and Innovation Institute, Tamil Nadu**          **Jul 2020 - Present**
Building a multi platform (iOS & Android) mobile application using Flutter framework to optimize trips made by Veterinarians to various blocks of Tamil Nadu.

**Founder/ Team Leader/ App Developer, Flutterflyers**          **Jun 2020 - Present**
Formed and leading an app development team and creating a Scrum Application for Android and iOS. We also plan to make a social networking application.

**Data Analyst Intern, Tamil Nadu Health System Reform Program**          **May 2020 - Jun 2020**
Led a team of 5 students and completed a project for disease cluster analysis. We made a district-wise model for Tuberculosis on a yearly basis. We had also trained the model on COVID-19 data (daily basis). The project involved Neural networks(ANN, Random Forests and Genetic Algorithm), Clustering and GIS mapping. This project can predict future number of cases for diseases and provide improved visualizations allowing officials to make better decisions.

## PROJECTS

**Hate Speech Detection - Natural Language Processing**          **Jul 2020 - Present**
Developing a Machine Learning Model using Tensorflow for detection of hate speech in Tweets. Doing this as Study Project under Prof. Yashvardhan Sharma from BITS Pilani and leveraging it for FIRE 2020 NLP convention HASOC problem. This will improve the detection of hate speech and allow social network administrators to minimize the effect and spread of hate speech.

**Scrum Application - Flutter, App Development**          **Jul 2020 - Present**
Led a team of 4 to build the application using Flutter and Firebase. This app can be used by teams in organisations to assist them apply Scrum framework to create better and more specific projects.

**LSTM chatbot with attention - Natural Language Processing**          **Apr 2020 - May 2020**
Developed a chatbot using Keras and Gensim libraries using LSTM units with Attention mechanism. The input vocabulary was improved using similarity of GloVe 300D word vectors.

**Pomodoro Timer Asistant - Python**          **Mar 2020 - Mar 2020**
Developed a Python program which acts as an assistant to use the Pomodoro technique created using Python. It has a ToDo list feature to help to keep track of what has to be done and it has a nice chime.

**Car Dealership System - Object Oriented Programming, C++**          **Nov 2017 - Jan 2018**
Developed a car dealership program featuring a Customer database and a Model management application which used OOP concepts.

## CERTIFICATIONS

| CERTIFICATION | CERTIFYING AUTHORITY | DESCRIPTION |
|---|---|---|
| **Sequence Models** | Coursera | Course by Andrew Ng. |
| **Neural Networks and Deep Learning** | Coursera | Course by Andrew Ng. |
| **AI For Everyone** | Coursera | Course by Andrew Ng. |

## POSITION OF RESPONSIBILITY

**Secretary - Department of Audiforce**          **Jun 2020 - Present**
Selected as the Secretary/Head of Audiforce Department. Managing both internal and external affairs of the department. Vision is to conduct more activities that help the team to grow professionally while developing the team spirit and enjoying the company. Organised an app development camp for the department members which has evolved to become an organization(Flutterflyers).

**Treasurer - Department of Audiforce**          **Jan 2020 - May 2020**
Worked as the treasurer of Audiforce Department directly under the secretary and assisted in managing the internal affairs of the department and organizing events for the department members. Notable work includes conducting Online Farewell for seniors and arranging Mentor sessions for first years.

| Subjects / Electives | Neural Networks and Fuzzy Logic, Data Structures and Algorithms, Object Oriented Programming, Database Systems, Computer Programming, Organisational Psychology, Professional Ethics, Business Communication |
|---|---|
| Technical Proficiency | Python3, Flutter, Keras, Machine Learning, Natural Language Processing, C++ Language, C Programming, Scrum, Microsoft Excel, Java, SQL |

## SCHOLARSHIPS

**Special Scholarship for PS-1**          **Jul 2020**
Recipient of the Scholarship awarded to those who performed well during Practice School-1, a Summer Internship(TNHSRP).