ALFRED WILLIAM JACOB

Course : **B.E. (Hons.)**, Computer Science, 2022
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CGPA : 7.9

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, Tamil Nadu State Government Jul 2020 - Present
Building a multi platform (iOS & Android) mobile application for dynamic allocation of Veterinarians, using Flutter framework. Data is managed in MongoDB. The app will 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 - Aug 2020
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.

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

SCHOLARSHIPS

Special Scholarship for PS-1 Jul 2020
Recipient of the Scholarship awarded to those who performed well during Practice School-1.

EXTRA CURRICULAR ACTIVITIES

Reading
Like to read non-fiction as it helps me to learn from the author's views and observations.

TEST SCORES

TEST NAME	DATE OF EXAM	SCORE
JEE Mains		Rank: 934
JEE Advanced		Rank: 2919

LANGUAGES KNOWN

English, Hindi, Malayalam, French