# Aryan Felix

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## EDUCATION

**SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY**
Bachelor of Technology - Computer Science and Engineering
July 2018  - Present | Sikkim, IN
CGPA - 9.3

**ST. ANDREWS HIGH SCHOOL**
CBSE Class 12
March 2017  - March 2018  | Hyderabad, IN
Percentage - 87

## EXPERIENCE

**CENTER FOR ARTIFICIAL INTELLIGENCE AND ROBOTICS, DRDO**  | Artificial Intelligence Research Intern
June 2020  – Present | Bangalore, IN

- Research based work in the field of **Natural Language Processing**.
- Collaborate and study algorithms to implement strategies and research findings of big names in the field of NLP.
- Working with **SVM**s to predict relations in sentences using custom **Tree Kernels** with the help of **Python** and external libraries like **Sci-Kit Learn, NetworkX and Pandas**.
- Working with **RNN/LSTM**s to create an attention mechanism model for relation extraction combined with shortest path kernels.

## PROJECTS

**FACE MASK DETECTION USING CNN**   | Keras, OpenCV, PIL
July 2021  | Github

- A Face Mask Detection tool that detects whether the user is wearing a Mask, not wearing a Mask or if the user is wearing the mask incorrectly.

**BRAIN TUMOR SEGMENTATION**   | Keras, TensorFlow
April 2021 | Github

- A Deep Learning model to detect and segment brain tumors from MRIs using Convolution Neural Networks.

**FULL STACK ONLINE ELECTION PORTAL**   | EJS, NodeJS, ExpressJS, MongoDB
December 2020  | Github

- An online election portal for conducting student body elections for the students of Sikkim Manipal Institute of Technology.

**COVID-19 INDIA PREDICTION MODEL**   | Python, NumPy, SciKit Learn
May 2020  | Github

- A polynomial regression model to predict the number of infections, recoveries and deaths on a particular day in the future with a certain accuracy.

**AIR PEN**   | Python, OpenCV, NumPy
September 2020  | Github

- A virtual drawing app that lets you use your household object as a stylus.
- Fully functional executable app for Windows.

## SKILLS

Languages
Python • C/C++
Libraries
Keras • SciKit Learn • OpenCV
TensorFlow • NumPy • Pandas
Frontend
HTML • CSS • Bootstrap
Backend
Node.JS • Express.JS
Frameworks
React.JS
Database
MongoDB • MySQL
Tools
Git • GitHub • Heroku
VS Code • Sublime
Jupyter • Google Colab

## AWARDS

**2020**  | SmartHacks
- 1st Position
- IIT Kanpur
**2020**  | Kalam Dhrishti 2.0
- 1st Position
- SMIT
**2020**  | Tech Adristha Hackathon
- 1st Position
- SMIT

## COURSEWORK

Data Science
Machine Learning
Deep Learning
Full Stack Web Development
Python 3
Data Structures and Algorithms
Object Oriented Programming

## POSITIONS OF RESPONSIBILITIES

**General Secretary**
- Student Council
**President**
- Inquizitive!
- Quizzing Club
**Senior Member**
- Open Source Club
- Technical Club
**Senior Member**
- Innovision
- Technical Club