

# DALON FRANCIS LOBO

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## EDUCATION

### St Francis Xavier University

Post-Baccalaureate Diploma in Artificial Intelligence (GPA: 95.55/99)

Antigonish, Canada

Sep 2020 – May 2022 (Exp)

### St Joseph Engineering College, India

Bachelor of Engineering in Electronics and Communication

Mangalore, India

Jun 2009 – May 2013

## SKILLS & INTERESTS

**Skills:** Python | C++ | Deep Learning | ML | TensorFlow | PyTorch | Pandas | NumPy | Matplotlib | Docker | R

## WORK EXPERIENCE

### Videoken

Research Engineer

Bangalore, India

Dec 2017 – Sep 2020

- Implemented an end-to-end Acoustic Speech Recognition (ASR) pipeline, using the Baidu's DeepSpeech2 ASR architecture trained on 1000 hrs. of custom transcribed audio and reduced the Word Error Rate to 8%, which helped Videoken's AI platform to increase video engagement by 30%. This includes RESTful backend (Flask/Nginx), Cosmos dB, containerization (Docker).
- Developed punctuation pipeline for video subtitle (SRT) files trained using bidirectional RNN with attention mechanism (punctuator2) architecture.
- Designed and implemented search engine using elastic search and BERT embeddings to achieve semantic understanding of the search terms, which boost the sale of VideoLake by 50%.
- Developed video recommendation, using the sentence embeddings of the metadata of the videos and Speaker Diarization pipeline by training a Fully Supervised Speaker Diarization (UIS-RNN) model on 50GB of audio-text data, which led to increased product sale by 20%.

### Freelancer

Web Developer

Bangalore, India

Mar 2017 – Dec 2017

- Delivered the website <https://piedpiperevents.com> for a client, with dynamic pages, chat, blog, and admin interface using Django-Python, hosted on AWS(Nginx).

### Accenture

Software Engineer

Bangalore, India

Sep 2015 – Feb 2017

- Developed a reporting dashboard for Credit Suisse Bank used by 100+ stakeholders, developed using Django, JS, Bootstrap. This reduced the report generation time by 50%.
- Conducted a 3-month training program on Python for Automation for 10 internal team members. Moved multiple manual tasks to automated workflow.

### Telenetix

Software Developer

Manipal, India

Jun 2013 – Jul 2015

- Delivered a Call Center dashboard solution used by 10+ Call center clients for managing and monitoring 100's of agents.
- Developed a web interface to control and monitor (with reporting) remote Solar Power plant located in different country.

## PROJECTS

### [Facial Expression Detector and English to Kannada Translator](#)

- Visualize and explore FER-2013 dataset with 28k images, implement CNN architecture with prediction on webcam images converted to emoji. English to Kannada Translation using Bilingual Sentence Pairs dataset using RNN, GRU and LSTM models.

## LEADERSHIP EXPERIENCE

### Kevin's Food Resource Center

Volunteer

Antigonish, Canada

May 2021 – Present

- Coordinated weekly food resource delivery, restocking and distribution.

### Antigonish School Supplies Share Program

Director of Social Media

Antigonish, Canada

Apr 2021 – Sep 2021

- Partnered with 7 individuals to deliver school supplies to 250+ school kids from local community. Created social media campaign and developed program website.

## INTERESTS

Photography, Analytics, Movies, Travelling