

DALON FRANCIS LOBO

Antigonish, CA | 647-520-3844 | dalonlobo@gmail.com | [LinkedIn](#) | [Personal Website](#) | [GitHub](#)

EDUCATION

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| St Francis Xavier University <i>Post-Baccalaureate Diploma in Artificial Intelligence (GPA: 94.82/99)</i> | Antigonish, Canada <i>Sep 2020 – May 2022</i> |
| Great Lakes Institute of Management <i>Post Graduate Program in Big Data and Machine Learning</i> | Bangalore, India <i>Mar 2017 – Jun 2018</i> |
| St Joseph Engineering College, India <i>Bachelor of Engineering in Electronics and Communication</i> | Mangalore, India <i>Jun 2009 – May 2013</i> |

SKILLS & INTERESTS

Skills: Python | C++ | Deep Learning | ML | Computer Vision | NLP | TensorFlow | PyTorch | Pandas | NumPy

WORK EXPERIENCE

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| Videoken <i>Research Engineer</i> | Bangalore, India <i>Dec 2017 – Sep 2020</i> |
| <ul style="list-style-type: none">Architected and implemented an end-to-end Acoustic Speech Recognition (ASR) NLP 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.Architected and developed a distributed system for 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.Deployed JupyterHub with Kubernetes cluster on Azure Kubernetes Service (AKS) to support a computing environment for 1000+ students. | |
| Accenture <i>Software Engineer</i> | Bangalore, India <i>Sep 2015 – Feb 2017</i> |
| <ul style="list-style-type: none">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 training program on Python for Automation for 10 internal team members. Moved multiple manual tasks to automated workflow. | |
| Telenetix <i>Software Developer</i> | Manipal, India <i>Jun 2013 – Jul 2015</i> |
| <ul style="list-style-type: none">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 Computer Vision 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

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| Kevin's Food Resource Center <i>Volunteer</i> | Antigonish, Canada <i>May 2021 – Present</i> |
| <ul style="list-style-type: none">Coordinated weekly food resource delivery, restocking and distribution. | |
| Antigonish School Supplies Share Program <i>Director of Social Media</i> | Antigonish, Canada <i>Apr 2021 – Sep 2021</i> |
| <ul style="list-style-type: none">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