

EDUCATION

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|----------------------|---|-----------|
| Data Science Program | <b>Applied AI Course</b><br>Data science ,Machine Learning and Deep Learning                                    | 2019-2020 |
| BTech                | <b>Computer Science and Engineering, Cochin University (CUSAT)</b>  | 2015-2019 |
| Online Learning      | Fast.ai, SQL for Data Science, Python for Machine Learning Bootcamp and Machine Learning for production (MLOps) |           |

EXPERIENCE

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| Data Scientist   | <b>Apes.AI</b> , Kochi | September 2020 – Present |
| <ul style="list-style-type: none"><li>• Pythonic data cleaning with Numpy and Pandas.</li><li>• Developed and deployed a traffic signs and shop names detection using yolov5.</li><li>• Shop names were extracted using object character recognition.</li><li>• Working with time series forecasting using LSTM models.</li><li>• Implemented blood bank inventory demand prediction and forecasting using LSTM model.</li></ul> |                        |                          |

PROJECTS

Traffic Sign and Shop Name Detection Using YOLOv5 and OCR

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| <ul style="list-style-type: none"><li>• Built an E2E object detection system using PyTorch, Tensorflow and OpenCV and deployed using AWS.</li><li>• Implemented object detection on both 360° and 180 images using YOLOv5.</li><li>• From the detected shop name bounding boxes , use OCR to text extraction.</li></ul> |
| <b>Tools Used:</b> Python, PyTorch, Tensorflow, OpenCV, OCR, Flask, S3 Bucket, PostgreSQL, Sagemaker and EC2 instance   |

Reducing Commercial Fatalities

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| <ul style="list-style-type: none"><li>• Want to predict the cognitive state of a pilot using physiological data.</li><li>• Feature engineered using biosppy module and EEG electrode data.</li></ul> |
| <b>Tools Used:</b> Python, LightGBM, Scikit learn, Biosppy and Google Cloud Platform   |

Cotton Disease Prediction

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| <ul style="list-style-type: none"><li>• Built an image classification system that can predict diseased cotton leaves/plants.</li><li>• Model was trained using a transfer learning technique.</li></ul> |
| <b>Tools Used:</b> Python, Html, Flask, Heroku and Inceptionv3  |

SKILLS

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| <ul style="list-style-type: none"><li>• <b>Programming Languages:</b> Python, SQL</li></ul> |  |
| <ul style="list-style-type: none"><li>• <b>Data Science:</b></li></ul>                      | Data Science, Machine Learning, Deep Learning, NLP, pandas Tensorflow, Keras, Computer vision, NumPy, Matplotlib, Seaborn and Scikit learn |

VOLUNTEERING

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| <ul style="list-style-type: none"><li>• <b>Organizer</b></li></ul> | <b>Sargam</b> , University Arts fest, CUSAT                | 2018 |
| <ul style="list-style-type: none"><li>• <b>Organizer</b></li></ul> | <b>Vipanchika</b> , Arts fest School of Engineering, CUSAT | 2018 |