Basil Jose

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EDUCATION

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

EXPERIENCE

Data Scientist **Apes AI**, Kochi September 2020 – Present

- Pythonic data cleaning with Numpy and Pandas.
- Developed and deployed a traffic signs and shop names detection using yolov5.
- Shop names were extracted using object character recognition.
- Working with time series forecasting using LSTM models.
- Implemented blood bank inventory demand prediction and forecasting using LSTM model.

PROJECTS

Traffic Sign and Shop Name Detection Using YOLOv5 and OCR

- Built an E2E object detection system using PyTorch, Tensorflow and OpenCV and deployed using AWS.
- Implemented object detection on both 360° and 180 images using YOLOv5.
- From the detected shop name bounding boxes , use OCR to text extraction.

Tools Used: Python, Tensorflow, OpenCV, OCR, Flask, S3 Bucket, PostgreSQL ,EC2 instance and Sagemaker

Reducing Commercial Fatalities

- Want to predict the cognitive state of a pilot using physiological data.
- Feature engineered using biosppy module and EEG electrode data.

Tools Used: Python, LightGBM, Scikit-learn, Biosppy and Google Cloud Platform

Cotton Disease Prediction

- Built an image classification system that can predict diseased cotton leaves/plants.
- Model was trained using a transfer learning technique.

Tools Used: Python, Html, Flask, Heroku and Inceptionv3

SKILLS

- **Programming Languages:** Python, SQL
- **Data Science:** Data Science, Machine Learning, Deep Learning, NLP, pandas Tensorflow, Keras, Computer vision, NumPy, Matplotlib, Seaborn and Scikit-learn

VOLUNTEERING

- **Organizer** **Sargam**, University Arts fest, CUSAT 2018
- **Organizer** **Vipanchika ,** Arts fest School of Engineering, CUSAT 2018