

Arnab Pushilal

Skilled data scientist with 3 years of experience in the automotive industry. I like to learn and write about what I am currently thinking about. You can find my technical blogs with analyticsvidhya in the medium link below. I'm interested in deep learning, NLP, vision and developing scalable machine learning based applications. Please do visit my website for my detailed background.

✉ thestuffedshow1@gmail.com

📍 London, United Kingdom

🐙 github.com/ArnabPushilal

📞 +44-7880205911

📄 arnabpushilal.github.io/

🗣 medium.com/@arnabpushilal

WORK EXPERIENCE

Asst Manager, Data Acquisition & Analysis Hero MotoCorp

07/2018 - 06/2021

Gurgaon, India

Projects/Tasks

- Designed a model to predict Emission failure from sensor data captured from two-wheelers in a lab setting. Deployed to numerous locations across the country.
- Performed statistical uncertainty estimation in the emission measurement process and got the method ISO accredited.
- Designed a model to collate on road-data with the lab measurements.
- Wrote scripts to automate data visualization and reporting. Users could login their data & the charts would automatically update and generate reports periodically.
- Led the data-development team who were responsible for collecting & reporting the measurements & experiments.

Msc Student Intern ZOE

06/2022 - Present

London, United Kingdom

Healthcare company

Project

- Working on recommending healthier recipes to ZOE user's combining user-preferences with nutritional value.

EDUCATION

BTech Electrical & Electronics VIT University, Vellore

05/2014 - 05/2018

CGPA: 9.07/10

Courses

- DSA, Neural Networks, Numerical Methods, C programming, Signal Processing
- Thesis: Facial Recognition for Home Security Systems, Published Article ID: 20706, IJET

MSc Data Science & Machine Learning University College London

09/2021 - Present

Average till date 87%

Courses

- Term - 1: Intro to ML, Deep learning, Vision, Statistical Data Science
- Data Mining, AI for sustainable development, NLP, Applied ML

SKILLS

Python

SQL

Pytorch

Pandas

Numpy

Sci-kit

Flask

Tensorflow

git

PySpark

NLTK/Spacy

Docker

Linux/Windows

GCP

PROJECTS

whatsmyageagain.herokuapp.com (06/2022) [↗](#)

- Developed a age-prediction web app using a face detector and a VGG-based age prediction model.
- Used Flask, SQLAlchemy, HTML to create front-end & back-end, used docker & Heroku to deploy.

Automatic Neutralization of Sexist language (02/2022) [↗](#)

- Found novel ways of evaluating neutralized sentences, contributed a new dataset for the task.

Multi-task Learning using attention & auxillary tasks (11/2021) [↗](#)

- Trained a attention-based model to with self-supervised auxillary tasks like canny-filter edge detection, denoising, colourization to improve target task of segmentation.

Binary Classifier with Mixture of Gaussians (10/2021) [↗](#)

- Trained a MOG model using E-M for background and target pixels and calculated the posterior to predict the probability, and F1, ROC to evaluate the model.

Spotify Popularity Predictor (09/2020) [↗](#)

- Collected data from Spotify API & used various models to predict the Popularity Score for any song.

Hero MotoCorp Stock Predictor using LSTMs (09/2020) [↗](#)

- This was a part of my tensorflow specialization to create deep learning models for stock price prediction

CERTIFICATES

IBM Data Science Professional Coursera (09/2020)

Tensorflow Specialization in Practice (10/2020)

Spark & Python for Big Data with PySpark (01/2021)

MOOCs: Stanford cs231n, cs224n, cs229, Fast Ai