

ARNAB PUSHILAL

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Adept at addressing practical problems by gathering, analyzing and modeling data with detail-oriented approach. Looking for experiences to further my career in the domain of machine learning.

EXPERIENCE

07/18 TO 06/21

ASSISTANT MANAGER- DAQ EMISSION GROUP, HERO MOTOCORP

- ✚ Responsible for reduction of emission for two-wheelers to comply with emission norms in India.
- ✚ Designed a model to predict Emission failure from sensor data captured in a lab. This included **collection, pre-processing & modelling data** to their relative target. Deployed to quality labs in 5 plants across the country.
- ✚ Mapping road fuel economy to lab values. Set up DAQ system on two-wheelers and performed **regression** on lab and emission data.
- ✚ Performed complete **uncertainty estimation** for Emission measurement process.
- ✚ Wrote scripts to automate emission **data visualization**.
- ✚ Managed a team of 5 & scheduled tests on multiple dynamometers
- ✚ Acted as a bridge between R&D and plant teams to facilitate new model development.
- ✚ Tools used: **Python, MATLAB, Excel, INCA**

EDUCATION

09/21 - PRESENT

MSC DATA SCIENCE AND MACHINE LEARNING, UNIVERSITY COLLEGE LONDON

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

05/14 - 05/21

BTECH IN ELECTRICAL AND ELECTRONICS ENGINEERING, VIT VELLORE

- ✚ GPA: **9.07/10**
- ✚ Relevant Modules: DSA, Neural Networks, Numerical Methods, C programming, Signal Processing
- ✚ Final Thesis: Facial Recognition for Home Security Systems

02/12 - 02/14

HIGH SECONDARY CBSE 12TH STANDARD, DPS RUBY PARK, KOLKATA

- + Percentage: **92.8%**
- + Subjects: Physics, Chemistry, Mathematics, English, Computer Science

SKILLS

- + **Python** | Libraries – Pytorch, TensorFlow, Sci-kit, Pandas, Numpy
- + Proficient at **Data Wrangling, Data Visualization, Data Cleaning** using standard Python Libraries.
- + Strong skills in **Machine learning & Deep learning**
- + Familiar with SQL, git, PySpark, C

WRITING & CERTIFICATIONS

- + Technical Content for **Analytics Vidhya**: <https://bit.ly/arnabm>
 - Published articles about topics ranging from [NLP](#), [deep learning](#) to [linear algebra](#)
- + Certificate: IBM Data Science Professional
 - Consisted of 9 courses ranging from SQL to ML and a capstone project
- + Certificate: TensorFlow Specialization in Practice
 - Consisted of courses ranging from Sequence modeling to vision-based in TF
- + Certificate: Spark & Python for Big Data with PySpark

PROJECTS

- + Multi-task learning for segmentation, classification & object detection using an attention-based network that includes experiments on several auxiliary tasks of combining multiple losses: <https://bit.ly/MLTproj>
- + Automatic Neutralization of sexist language using a BERT encoder & LSTM decoder including a novel method of evaluation of the task: <https://bit.ly/NeutralizeSexist>
- + Mixture of Gaussian model from scratch for detecting apples in a given image: <https://bit.ly/MixofGaus>
- + Spotify Popularity prediction: <https://bit.ly/StockPred>
- + Hero MotoCorp Stock Prediction: <https://bit.ly/projspot>

EXTRA-CURRICULAR

- + National Level Athletics U18
- + Music club committee: Won Several competitions across India