# SADHBH STAPLETON DOYLE

## Machine Learning Engineer

@ sadhbhsdoyle@gmail.com  📍 Dublin, Ireland  in sadhbhstapletondoyle  ⌗ staplesad

*I have over 4 years of experience with Data Analysis specialising in NLP. I am interested in the intersection of technology and society.*

## SKILLS

### Machine Learning Tools

`scikit-learn` `TensorFlow` `PyTorch` `NLTK` `spaCy`

### Programming Languages

`Python` `SQL` `R` `Elm` `C` `Fortran`

### Other Tools

`git` `Docker` `bash` `regex` `LaTeX` `Jupyter`

## EDUCATION

### MSc. High Performance Computing with Data Science
### Merit Award (2.1)

**University of Edinburgh**

📅 Sept 2016 – August 2017

- Dissertation: Implementing RMA Communications in the Met Office NERC Cloud model

### B.A. (Mod.) Mathematics
### 1st Class

**Trinity College Dublin**

📅 Sept 2012 – May 2016

Trinity Gold Medal – exceptional merit at final degree examinations

## VOLUNTEERING

- **2021** Taught a Text Analysis Workshop for UCD DataSoc
- **2021** SQL Instructor with CodeFirst-Girls
- **2018** App Dev Workshop Instructor with HubSpot
- **2015** Student Leadership and Mathematics TA
- **2015** Tutor with the Voluntary Tuition Programme

## EXPERIENCE

### HubSpot

### Senior Machine Learning Modeler

📅 Jan 2020 – Ongoing

### Software Engineer (ML)

📅 Dec 2018 – Jan 2020

### Associate Software Engineer (ML)

📅 Jan 2018 – Dec 2018

Building machine learning models for the HubSpot product and internal tools. Including:

- Search and relevancy
- Text classifiers
- Recommenders
- Topic Extraction
- Summarisation
- Object Embeddings

A standard project includes:

- Specifying data required and/or collecting data
- Data cleaning and analysis
- Model research, training and evaluation
- Writing production model code and accompanying docker image
- Writing internal documentation for the model
- Monitoring model performance and updating/retraining the model
- Communicating results of analysis/model creation to stakeholders throughout

In 2020 I was in charge of developing our internal approach to AI fairness. I reviewed the literature on bias, ethics and fairness in machine learning and proposed and implemented our internal processes for fairness and ethical development of machine learning projects.

### Helpdesk Technician
**Aladdin Schools**

📅 Aug – Sept 2015, May – July 2016

Provided customer service for a management information system targeted at Irish primary schools.

- Solving customer issues via phone and email and updating user FAQs and manuals.
- Preliminary research into methods of analysing and displaying student results and attendance.

### Teaching Assistant
**CTYI**

📅 June – July 2015, Sept – Dec 2015

- Assisted classes on App Design and Animation and supervised study for primary and secondary school students

## REFERENCES

References provided upon request.