

Nicola Fox

Data Scientist with a Data Science MSc, Computing BSc, and 18 years experience in the IT industry as a BCS qualified Business Analyst (UK & abroad). MSc project utilised natural language processing (NLP) with machine learning in Python.

[Website](#)
[DEV.to Profile](#)
[Linked-in Profile](#)
Greater Manchester, UK

EXPERIENCE

Manchester Metropolitan University, Manchester – Data Science MSc

Sep 2019 – Present

I took 12 months off work to complete a Data Science MSc. This course included data visualisation and machine learning using Python, SQL, SAS, Weka, Spark, Hadoop, Tensorflow and Keras. My dissertation involves researching natural language processing (NLP) techniques to detect hate speech against women and immigrants on Twitter, in English and Spanish.

RBS, Manchester – Data Analyst (Contract)

Feb 2019 – Jul 2019

I supported the Contract Management team by providing data analysis. This included pulling data from various sources (both internal & external) in Excel and providing visual insights to the team, who used the information to work with suppliers to reduce costs. I also worked with a developer to migrate data captured in Excel files to a SQL database with a web front end, to improve data quality & reduce the risk of human error. I also helped to expand the Excel skills of the team by providing one-to-one demonstrations of Excel's capabilities.

Victrex, Blackpool – Business Analyst (Contract)

May 2018 – Dec 2018

Provided Business Analysis services, including a review and re-design of an end-to-end manufacturing process, working with internal & external stakeholders in the UK and abroad.

Equal Experts, Manchester – Business Analyst (Contract)

Oct 2016 – May 2018

Working as a consultant for Equal Experts on a "big data" transformation project for their public sector client, I

SKILLS

Data analysis and visualisation with Python, SQL, Spark, R and Excel.

Machine learning with Python.

Natural Language processing (NLP).

Deep neural networks.

Business analysis.

SIDE PROJECTS & OUTSIDE-OF-WORK ACHIEVEMENTS

Velo Sister - I built and ran an online store, selling products that I designed, to raise money for charities

Ironman - I completed the Outlaw ironman triathlon

Membership Secretary - I increased the number of women club members (from 13% to 18%) as part of a focus to address diversity during my year

worked as part of an “agile” team to migrate data from a legacy system to a new system exploiting new technologies such as Hadoop. I worked with the Product Owners, developers and other stakeholders to define the changes to be implemented via user stories, acceptance criteria, report mock-ups, and process flow diagrams.

Various, UK and Abroad

June 2001 - Sep 2016

Prior to September 2016 I worked for various companies including Co-op Bank (Manchester), Swinton Insurance (Manchester), GE (Leeds), Cegedim Rx (Preston), Pearson Vue (Noida, India), Pearson VUE (Salford Quays), Yates (Bolton), and Alphameric Hospitality (Godalming, Surrey).

EDUCATION

Manchester Metropolitan University, Manchester – Data Science MSc

Sep 2019 - Sep 2020

University of Leeds, Leeds – Computing BSc (2:1)

Sep 1998 - June 2001

PROJECTS

Detection of Hate Speech with Text Machine Learning – MSc Dissertation Project

Natural language processing & deep neural networks (in Python) to predict hate speech on Twitter

Predicting the Severity of Road Traffic Accidents in Greater Manchester – MSc Module Project

Exploratory data analysis, data cleaning, & machine learning in Python, using traffic accident data to predict casualty severity.

Image Classification with Tensorflow – MSc Module Project

Caltech-256 image classification using Python & Tensorflow

Exploratory Data Analysis of Yelp Reviews Using Spark – MSc Module Project

Exploratory data analysis of Yelp reviews using Spark & Python.

as Membership Secretary for the Manchester Wheelers cycling club.

Recommendations

“Nic is a fantastic person to work with. Her tenacity and focus on getting to the heart of a problem is second to none, and her ability to synthesise, simplify and describe solutions is outstanding”

Dan Snell, Senior Architect, Swinton Insurance

“Nic is without doubt one of the most competent BA’s I have had the pleasure of working alongside.”

Pete Wittering, Delivery Manager, Equal Experts

“Nicola is a highly effective communicator who cares strongly about doing a good job”

Clare Sudbury, Developer, Swinton Insurance