



ADITYA RAJASEKAR

Big Data Engineer

ABOUT ME

Growing up, I was never fond of making decisions entirely based on gut feeling. I have always believed that data and empirical facts should be the heart of any strategic decision.

Though having this belief, it wasn't until attending university where I realised that a career in Data was right for me. Exposure to formal data analysis during research labs prepared me for life as a Data Engineer. I thoroughly enjoyed the processes of collecting, analysing and interpreting data and providing actionable insights as to how further experimentation could be conducted in the future.

I am extremely passionate about inspiring future generations to pursue a STEM career. During university, one of my key achievements included being selected to be STEM ambassador for the Bristol and Bath area. I visited many schools and planned fun activities to promote STEM careers.

Outside of work I am an avid sportsman and continue to play competitive cricket for Old Chelmsfordians Cricket Team. Some other sports I participate in recreationally are; Football, Badminton and Tennis.

CONTACT US

Kubrick Group

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OVERVIEW

I graduated from the University of Bath with a 2:1 BSc in Maths and Physics in 2017. My final year dissertation and modules such as Programming for Scientists, Networks, Mathematical Modelling and Optimization and Operational Research equipped me with experience in MatLab and C. The exposure to these fundamental programming languages enabled me to be successful in a summer internship at BT where I, along with others, used Java and linear programming methods to optimize the productivity of BT Engineers. I completed my university placement year at Bath and North-East Somerset Council where I gained the Information Technology Infrastructure Library (ITIL) Foundation qualification. In addition, I was exposed to Data Analysis techniques and basic SQL. From then on, I dedicated myself to learning Python and more advanced SQL queries to extend my knowledge in the field of Data.

WORK

DATA ENGINEER - KUBRICK GROUP - LONDON

September 2017 - Current

At Kubrick Group I gained knowledge and real world experience in professional skills, a wide yet in depth array of modern technical and analytic skills. We studied the agile software development lifecycles and gained detailed knowledge of platforms and infrastructure. I specialised in Data Engineering which involved learning and developing advanced skills in Python, Spark, Hadoop, NoSQL and SQL as well as advanced Excel - these lead me to work towards accreditation as a Cloudera Hadoop CCA Developer.

As a junior data consultant I applied my skills on real client projects including:

- Seasonality correlation to sales for a large retail client.
- Feature analysis for a large financial services client providing HR with churn rate modelling against different employee profiles.

The projects were developed in agile teams using Git and Kanban boards following agile processes in the presence of an agile coach. Delivery of the projects used virtual environments and Docker. The professional skills I have acquired and matured were invaluable in these projects.

JUNIOR OPERATIONS TECHNICIAN – BATH AND NORTH EAST SOMERSET COUNCIL, KEYNSHAM

November 2016 - May 2017

I spent one year working as an Operations Intern at Bath and North East Somerset Council. My main tasks included providing network troubleshooting solutions using Unix and creating Windows Powershell scripts to optimize administration tasks. I was involved in 2 key software development projects where I played a pivotal role in analysing data in Microsoft Excel. During this time I was given many responsibilities which I learnt a lot from. These responsibilities included cross training new employees on standard operating procedures and also presenting to senior management in monthly team meetings.

TECHONOLOGY, SERVICES AND OPERATIONS – BRITISH TELECOMS, IPSWICH

July 2015 - August 2015

I spent 2 months working in the Technology, Services and Operations division as a summer intern. Working in an agile team, we developed a model to improve the efficiency and productivity of BT engineers distributed across the country. Initially, optimization techniques in Java were implemented on a large dataset stored on Microsoft Excel. With the incorporation of more datasets, the model was continuously refined. Positive outcomes were achieved, and this model is currently being used today to allocate BT's Engineer workload.

EDUCATION

UNIVERSITY OF BATH, MATHS AND PHYSICS BSC 2:1

2014 - 2017

Notable Project: Statistical Mechanics and the Universality of Wealth Distributions.

Analysed HMRC income data to gain an insight into the universalistic nature of wealth distributions. Simulated and economy using Monte Carlo methods and analysed data using techniques developed in statistical physics to explain the ubiquitous nature of wealth distributions. Interesting insights were found with regards to the particle-like behaviour of agents in an interacting economy.

Notable Project: Modelling Beaver Population in the River Otter.

Using mathematical modelling techniques and multi-linear regression, a statistical model was constructed to explore the population of the beavers in the River Otter. This model was then evaluated and tested against empirical data.

KEY SKILLS

Python Libraries:

Pandas, Numpy, SK Learn, NLTK, PyMongo and Plotly

Cloudera Hadoop version 5.4:

HDFS, Yarn, Sqoop, Flume, Avro, Parquet, Impala, Hive and Hue

NoSQL:

MongoDB, Neo4J

SQL:

SSIS, Lavastorm, Advanced SQL

Apache Spark:

RDD, DataFrames, SparkSQL, PySpark with some exposure to and understanding of Scala

Source Control and IDE:

Git, SourceTree and Git Extensions, PyCharm

Other Skills:

Datalku, Linux CentOS 6, SSH, Putty, Agile