MONIKA ZAJAC
Data Engineer

ABOUT ME

I chose my degree because of my interest in how today's economy works and how it interlinks with mathematics and statistics. During my course, I had many opportunities to understand the importance of data and the relationship and correlation between variables which, together with my passion for understanding the flow of numerical information, brought me to research data analytics.

During my research, the power and different usage of Big Data fascinated me. I was particularly interested in events where data analysis had an impact on people's lives. For example, the Tennessee Highway Patrol has been using predictive crash software to know what areas to patrol, which has led to lives being saved.

This has made me realise how significant Big Data is in day-to-day life and what possibilities it holds for the future.

After university, I knew I wanted to get into data engineering and data analytics and whilst I was looking for a way into the field, did an internship at my university and took a job in retail. When working at University of Essex, I commuted total 6 hours a day, until I found a job I was very excited about - the position at Kubrick Group which I now occupy.

I am ambitious and hard-working which has resulted in me receiving numerous awards for outstanding performance throughout my career.

CONTACT US

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A NEW FORCE IN TECHNOLOGY CONSULTING

OVERVIEW

I graduated in Economics and Mathematics from University of Essex with a 2:1 in 2015. In my final year, I chose to do two additional modules to broaden my knowledge in various subjects instead of a dissertation. These modules (Economic Analysis of Asset Prices and Statistical Methods) increased my awareness of the operation of financial markets in advanced economies and enabled me to gain a basic understanding of how methods, such as Monte Carlo Simulation and Generalised linear model, could be used to analyse and interpret relationships between statistical data sets.

After university, I started working as a Project Administrator in the university's HR department. My job entailed building a new expenses module in the existing HR and Payroll software to discontinue claiming expenses on paper and restrict reimbursement of claims which did not meet university's financial regulations. To do this, I analysed university's staff expenses data which strengthened my interest in data analytics, as it opened my eyes to what we can achieve and improve just by analysing the data and spotting trends and possible constraints.

WORK

DATA ENGINEER – KUBRICK GROUP, LONDON

March 2017 – present
In addition to intensive learning, whilst at Kubrick I have worked in agile teams on many client projects deepening the skills I have learned.
The Data projects which I have worked on have proven my skills in efficiently engineering very large datasets across a cluster. This has enabled me to deepen my analytical skills, both through data visualisation in Tableau and Plot.ly and through predictive modelling using the Python SkLearn module.
Examples of value I have added to businesses include insight derived from real time streamed social media analytics, as well as predictive insights extracted from client side data warehouses.

SALES ADVISER – DEBENHAMS, LONDON
August 2015 – December 2015 / September 2016 – February 2017
Worked as part of product team. My responsibilities were ensuring the shop floor is presentable at all times, merchandising and helping customers when needed.

INTERNSHIP: PROJECT ADMINISTRATOR – UNIVERSITY OF ESSEX, COLCHESTER
December 2015 – August 2016
My responsibilities involved maintaining and integrating project plans, tracking and reporting overall progress, analysing data along with building a new expenses module in HR and payroll software iTrent.

EDUCATION

BSC(HONS) ECONOMICS AND MATHEMATICS 2.1, UNIVERSITY OF ESSEX
2012 – 2015
Notable modules: Statistical Methods, Macroeconomics (Advanced), Financial Derivatives, Theory of Monopoly and Regulation and Market Structure and Strategic Behaviour.
Economic Analysis of Asset Prices Project
I researched and analysed three different asset pricing modules to evaluate how to determine under- and over- pricing of assets. This has allowed me to further develop my problem-solving skills, evaluation of statistical applications and research and information gathering.
Theory of Monopoly and Regulation
I analysed the merger of two companies that had been blocked and examined the markets that would have been affected by the merger. This project allowed me to analyse the decision-making of a monopolist, assess the welfare effects of these decisions and understand the difficulties faced by a regulator in controlling these behaviours.

KEY SKILLS

I am experienced and qualified in the following technologies and disciplines:

Data Skills:	SQL, Python, Pandas and SciPy, SkLearn, Tableau, Plot.ly,Hadoop, Apache Spark & MongoDB
Security Skills:	Git, Security and Kerberos, SSH & Linux, GDPR
Data Warehousing:	Data Warehousing in T-SQL, Hive & Kimball methodology
SDLC:	Agile, problem solving
Documentation:	LaTeX and Markdown
Soft Skills:	Presentation skills
Specialisms trained in:	Retail, AML, Credit Risk
Certifications:	Cloudera Certified Associate (CCA) Hadoop & Spark Developer