

# Shayan DOUST

## PERSONAL DATA

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## PERSONAL STATEMENT

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I am a studious and persevering student studying **MSc Theoretical Computer Science** at the *University of Liverpool*. Having attained a 1<sup>st</sup> class Honours in **BSc Computer Science** specialising in Artificial Intelligence & Machine Learning, I am looking to pursue my ambition of enrolling in a PhD programme in a related field. I enjoy Mathematics; particularly, I take joy in reading past and recent theoretical publications and assessing how I can build upon it. With a high achievement at University and my work in providing a net business value as a Data Scientist at GlaxoSmithKline, I strive to push myself to be in the frontier of prospective research.

## EDUCATION & WORK

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SEPTEMBER 2023 - PRESENT    **University of Liverpool**  
MSC THEORETICAL COMPUTER SCIENCE  
Current modules include Multi-Agent Reinforcement Learning and Distributed Systems.

SEPTEMBER 2019 - SEPTEMBER 2023    **University of Liverpool**  
BSC COMPUTER SCIENCE WITH A YEAR IN INDUSTRY  
  
Artificial Intelligence/Machine Learning specialty pathway.  
ACHIEVED 1<sup>ST</sup> CLASS HONOURS.

AUGUST 2021 - AUGUST 2022    **GlaxoSmithKline Industrial Placement**  
Worked as a Data Scientist in a strictly-agile environment within the domain of Pharmaceuticals. Responsibilities included the strategic unification of keyless data in our Apache Hadoop clusters, visualisation of data landscape using R, and the computer vision centric quality control of pseudocoloured chromosome masks from our in-vitro pipeline.

SEPTEMBER 2017 - 2019    **Upton by Chester high school**  
*3 A-Levels: Maths, Physics & Computer Science*  
  
ACHIEVED A\* - C  
*A-Level project: cross-platform encrypted messaging application in C/C++*

SEPTEMBER 2016 - 2017    **Upton by Chester high school**  
*6 GCSEs including Maths, Physics & Computer Science*

## SKILLS

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- **Expert understanding of \*nix systems.**  
11 years of using Unix-like systems such as GNU/Linux. Additionally, worked with and compiled several softwares for packages on various architectures such as Arm, Amd64, Mips, et cetera.

- **Data scraping, wrangling, modeling and evaluation.**  
I further strengthened these skills by pursuing the Data Science professional certificate on edX as well as using internet resources to teach myself. I am particularly excited as Data Science & Artificial Intelligence is my chosen module for this year's university.
- **Knowledge of R statistical language, Java, Python and C(++)**.  
R language has been used when learning about statistics. I have also trialled with using Rcpp to write R modules.
- **Understanding of algorithmic methods of optimisation.**
- **Strong experience with cloud services like AWS and Google Cloud Compute.**
- **Strong experience with DataBricks and general Apache Spark platforms.**
- **Proficient with writing and delivering complex models through popular AI/ML frameworks like TensorFlow.**
- **Interpersonal skills with the ability to orchestrate and lead groups.**
- **Strong experience with using Conda environment, more specifically Bioconda.**
- **Comfortable with formulating and working with common statistical methodologies such as p-values, linear regression, probability, Bayes' theorem and multivariate modelling.**
- **A critical thinker.**
- **Passion of learning and gaining a deeper understanding of concepts.**
- **High social understanding & eager to help others.**
- **First experiences with forecasting and predictive models.**  
Practised using the datasets within the [dslabs](#) package.
- **Great communicative skills.**  
Confidence and ability to converse within teams during teamworks, or to address a wider audience.
- **Ability to deliver qualitative and quantitative work under heavy workload, time constraints and pressure.**  
I am able to formulate a mental work-time structure in order to fairly and efficiently balance work to prevent any sort of bottlenecking.

## ACHIEVEMENTS & CERTIFICATES

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JULY 2020    Attained the [Data Science professional certificate](#)  
([HarvardX @ edX](#))  
MAY 2019 - AUGUST 2022    [Debian maintainer](#) and prospective developer within the Debian-Med team

The Data Science certificate I have attained acts as a major supplement to my A.I. and analytics module I took during my Undergraduate course. They both fairly overlap and this has helped fill any void in my knowledge.

## INTERESTS

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Desire and motivation of exploring and self-teaching new elements within the field of Data Science & Machine Learning, as well as mathematical theorems in the realm of Artificial Intelligence; my BSc honour's project was based on the design and implementation of a pipeline that takes in noisy MRI images as input, and outputs clean MRI images segmenting any benign and malignant tumours present - achieved 80% Jaccard similarity.