Mr. Jaspal Singh Sarrah

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Profile

Highly driven, motivated, and analytical data professional. Currently an Insights and Data Consultant at Capgemini UK having successfully completed Tech Talent Academy's Data programme learning Python fundamentals, including key data science libraries such as Numpy, Pandas, SciKit, and Tensorflow. In my most recent role(s) I have gained a solid grounding in SAS and SQL in financial services related projects. I am an adaptable worker looking for a Data Scientist role that will utilise this skillset.

Training and Education

Pluralsight, Gen AI Awareness Module   **Dec 2023**

Concepts and ideas in Artificial Intelligence, including the latest Generative AI applications.

Coursera, Data Analysis Tools – (Passed)   **Jan 2022**

Learnt a variety of statistical tests, as well as strategies to know how to apply the appropriate one to chosen specific data and research question. Using Python, explored ANOVA, Chi-Square, and Pearson correlation analysis.

Coursera, Regression modelling in practice – (Passed)   **Dec 2021**

Beginning with linear regression, learnt how to adapt when two variables do not present a clear linear relationship including able to identify confounding variables. Learnt the assumptions underlying regression analysis, how to interpret regression coefficients, and how to use regression diagnostic plots to evaluate the quality of the regression model.

SAS Training - Programme 1 Essentials, Macro Language 1 Essentials and SQL 1 Essentials – (All passed)   **Nov 2021**

Coursera, Data Management and Visualisation – (Passed)   **Oct-Nov 2021**

Used powerful data analysis tools in Python to manage and visualize data, including how to deal with missing data, variable groups, and graphs.

TechTalent Academy, Data Science – (Passed)   **Jul 2021 – Oct 2021**

An intensive 14-week course, focused on the fundamentals of data science. During the course I built strong skills in the manipulation of data using Numpy and Pandas whilst being able to visualise the data using Python libraries.

BCS Foundation Award – Machine Learning (Passed)   **Jul 2021 - Oct 2021**

Birmingham City University, PGCE in Secondary Mathematics (Achieved Qualified Teacher Status)   **Sep 2005 – Jul 2006**

Aston University, BEng (Hons) Mechanical Engineering (Achieved 1st Class)   **Sep 1999 – Jul 2003**

Cadbury Sixth Form College, 3 A levels in Mathematics, Physics and Computing   **Sep 1997 - Aug 1999**

Skills

Organisation & Planning

- Completing a range of multiple tasks form a major part of my previous role as a lecturer. I have shown the ability to organise and plan my own schedule to ensure deadlines are met on time. Currently working on multiple jobs simultaneously as part of data migration project, which requires a high level of organisation.

Critical Thinking:

- Led the implementation of in-depth exam analysis using VLOOKUP tables in Microsoft Excel. Statistical analysis (T-Test, p-value) to measure progress and inform curriculum changes that are based on data evidence. Current role requires analysis of code migrated from 1view to SAS Grid to find anomalies and determine the cause and rectify.

Communication & Presentation:

- As a lecturer and teacher previously, I have regularly had to present information. As a result, I have developed the ability to portray complex ideas and information so that others that have no knowledge can gain a good understanding.

Teamwork:

- Worked together as part of mathematics team as a lecturer to design a programme that develops mathematics teaches of the future. Currently working as part of a team working on a data migration project, which relies on close communication as jobs are dependent on one another.

Leadership:

- Co-managed and led a department. I have been responsible for timetabling and allocating staff to parts of the curriculum based on strengths to improve student outcomes.
- Management of departmental budget allocating and undertaken line management responsibilities including appraisals.

Work experience

Capgemini UK, Insights and Data Consultant   **Oct 2021 – Present**

- Part of team on client project work responsible for data migration from 1view to SAS Grid.
- Ongoing professional development in areas related to data science

Birmingham City University, Senior Lecturer in Mathematics Education   **Oct 2018 – Aug 2021**

- Responsible for the training and development of trainee mathematics teachers.
- Planning and delivery of modules on the PGDE programme.

Holyhead School, Assistant Director of Learning Mathematics   **Apr 2014 – Aug 2018**

- Co-leading and managing the mathematics faculty including responsibility for professional development.
- To co-ordinate preparation and development of teaching materials, programmes, methods of teaching and assessment related to KS3 national curriculum.

Sandwell Academy, Teacher of Mathematics   **Oct 2013 – Apr 2014**

- Teacher of Mathematics and Form tutor.

South-East Asia and South America, Gap year travelling   **Sep 2012 – Sep 2013**

- Learned how to adapt to unanticipated situations and improvise new plans due to unexpected events.
- Developed budgeting, planning and negotation skills by financing, planning, organising my trip around the world.

Oxford International College, Teacher of Mathematics and KS4 Coordinator   **Aug 2011 – Aug 2012**

- To co-ordinate preparation and development of teaching materials, programmes, methods of teaching and assessment related to GCSE Mathematics.
- MUN (Model United Nations) mentor.

Holyhead School, Teacher of Mathematics and KS5 Coordinator   **Jun 2006 – Aug 2011**

- To co-ordinate the preparation and development of curriculum, teaching material, programmes, methods of teaching and assessment related to KS5 Mathematics. Monitor/support the progress and development of advanced students.

Alstec Ltd, Graduate Mechanical Engineer   **Sep 2003 – Aug 2005**

- Design and mathematical calculations on bespoke projects. Some of the projects include the following: Replenishment mast on T45 Destroyer, Weapons handling system on CVF Aircraft Carrier and decoy unit on Eurofighter Typhoon.

Interests & hobbies

In addition to my passion for mathematics and with data, I also love travelling and playing team sports (badminton and football). I have also successfully passed yellow and green band assessments in Muay Thai.

Personal achievements

I am extremely proud of the steps taken to a career change to data analytics. Having successfully completed a data academy course I was able to secure an internship to gain some experience.

References

Available upon request