

# Aaron Salve

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Self-motivated and results-driven professional with a strong background in Data Science and Applied Mathematics, specializing in data-driven decision-making and strategic planning. With extensive experience in statistical analysis, data visualization, and project management, I have a proven track record of leveraging advanced analytical tools and methodologies to drive efficiency, optimize processes, and support strategic business initiatives. Adept at collaborating with cross-functional teams and communicating complex data insights in a clear, actionable manner.

## Skills

- Statistical Analysis
- Data Visualisation & Modelling
- Excellent Verbal Communication
- Advanced Written Skills
- MLOps
- Python Libraries
- Critical Thinking
- Strong Analytical Skills
- Exploratory Data Analysis
- Advanced Excel Skills
- Strong SQL Skills
- Strategic Planning

## Professional Experience

### Kaplan International College London, UK

Academic Manager (IYO Science & Engineering) Oct 2023 – Present

Engineering Tutor / Module Leader (Advanced Mathematics) Mar 2023 – Oct 2023

Sessional Mathematics Tutor Jan 2023 – Mar 2023

- Operational efficiency and process improvement: Led continuous process improvements by identifying gaps in the teaching and operational models. Leveraged data-driven insights to optimize procedures and workflows, ensuring smooth execution of tasks and adherence to academic deadlines.
- Problem-solving and issue resolution: Worked within a fast-paced, high-stakes environment, addressing challenges related to student performance and technical issues.
- Regulatory compliance and reporting: Ensured compliance with institutional and regulatory standards in curriculum design and implementation. Prepared detailed reports on academic performance metrics for internal review, improving transparency and decision-making.
- Stakeholder communication: Engaged with multiple stakeholders, including academic leadership, IT teams, and faculty, to provide updates on progress, identify issues, and implement solutions. Regularly presented key insights and recommendations to senior management.
- Teaching and curriculum leadership: Taught SQL, Python, Advanced Mathematics and Advanced Statistics to pre-master's students, leading modules in Research, Development & Design (RDD), Maths for Engineering & Computer Science, Advanced Mathematics and Introduction to Relational Databases.
- Team collaboration and leadership: Supported and managed teams of tutors, ensuring alignment with institutional objectives and delivering on key performance indicators.

### University of Bath

ML & AI Teaching Assistant Mar 2022 – May 2022

- Supported the lecturers in implementing curriculum for first and second-year Artificial Intelligence and Machine Learning courses with 150+ students.
- Provided one-on-one support for students, providing support for them in assignments dealing with Regression, Classification and Clustering algorithms in ML and tree search algorithms in AI.

## Education

### University of Bath

M.Sc. in Data Science | 2021-2022

Topics covered include Advanced Statistics, Machine Learning, Reinforcement Learning, and Bayesian Learning, and practiced these topics using tools like Python, Tensorflow, SQL, Excel and Tableau. I also worked on the following projects:

#### Energy Consumption Prediction for EVs for the next 25 years

- Utilized ARIMA forecasting to predict the energy consumption for Electric Vehicles for the next 25 years and discussed solutions for possible energy shortage and researched the potential of customizing the solutions based on different regions.
- Used python libraries such as Pandas, NumPy, Sci-kit Learn and matplotlib to perform data analysis and visualization.

#### Sentiment Analysis on Car Reviews Data

- Used Natural Language Processing (NLP) methodologies to identify whether the review provided by a customer for different cars are positive or negative, and found key identifiers for a positive vs negative experience – and then proceeded to compare two popular algorithms to find out the more efficient one.
- Used python libraries such as pandas, NLTK and Sci-kit learn for efficient data analysis.

### University of California, San Diego

B.S. in Applied Mathematics | 2017-2021

Specialized in Linear Algebra and Statistics and completed Program of Concentrations (PoC) in Economics and Philosophy of Logic. In my PoC, I studied Microeconomics, Macroeconomics, Financial Auditing, Decision-making, Scientific Reasoning and Propositional Logic. I also studied Python, R, MATLAB, and Java programming languages. We used R for Statistical Analysis, MATLAB for visual analysis of different mathematical functions and Python/Java to study Object-oriented programming.

## Certificates

### Apache Spark with Scala

Udemy

In Progress

Topics covered include Spark's RDD, SparkSQL, DataFrames, DataSets, Spark Streaming, ML and GraphX

### Microsoft DP-100 Azure Exam Preparation

Udemy/Microsoft

In Progress

This is a Data Science specific certificate awarded by Microsoft that acknowledges that the user can use Microsoft Azure Cloud platform for Data Science related tasks like creating ML workspaces and models.

### Data Science Professional Certificate Program

IBM/edX

April 8<sup>th</sup> 2022

This course took me through the entire Data Science Pipeline – from data wrangling and EDA to data analysis and presentation. Course ended with a CAPSTONE Project performed on SpaceX launch data.

### Hands on Tableau training for Data Science

Udemy

July 2<sup>nd</sup> 2021

This course covers a variety of topics in Tableau, ranging from simple charts to creating Tableau Dashboards.