

# JEDIDIAH SHAJI

ML(Software) Engineer • AI/ML Enthusiast

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Passionate and results-driven Computer Science graduate with hands-on experience in developing machine learning models, AI-driven applications, and cloud-based systems. Adept at Python programming, data processing, and model training using tools like TensorFlow, BERT, and Simple Transformers. Adept at working with databases, backend development, and system architecture. Proficient in collaborating within teams to build scalable, efficient, and secure software solutions.

## EDUCATION & QUALIFICATIONS

### Bachelor's Degree, *University of Bolton*

- BSc (Hons) Computing
- First Class Honours
- 2022 – 2025

### A Level, *Technical Higher Sec School, IHRD*

- Computer Science and Electronics
- Overall: 72%
- 2018 - 2020

### GCSE, *Good Shepherd School, ICSE*

- Science, Mathematics, and Computer Science
- Overall: 70%
- 2017 - 2018

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R
- **Data Analysis:** Pandas, NumPy, Scikit-Learn
- **Visualization:** Power BI, Tableau, Matplotlib
- **Databases:** SQL, MongoDB
- **Business Intelligence:** Excel, Google Sheets
- **Machine Learning:** Supervised & Unsupervised Learning, Predictive Modelling
- **Tools & Platforms:** Google Colab, AWS

## DATA ANALYSIS & MACHINE LEARNING PROJECTS

### Teen Quest Task Assignment Data Analysis (January 2025 – February 2025)

- Analysed user behaviour and task completion efficiency using Python and SQL.
- Optimized task scheduling by implementing reinforcement learning-based analytics.
- **Technologies:** Python, Pandas, SQL, MongoDB, Flask, Streamlit

### Cultural Appropriateness Bot - Data Classification (October 2024 - December 2024)

- Developed a BERT-based AI model to classify cultural appropriateness in images and text.
- Created a dashboard with real-time analytics on classification trends.
- **Technologies:** Python, BERT, NLP, Streamlit

### Question Answering Model with BERT (January 2024 – April 2024)

- Designed and implemented a question-answering system using transformer-based models.
- Processed and cleaned datasets to improve response accuracy.
- **Technologies:** Python, Google Colab, Simple Transformers

### Retail Sales Data Analysis (March 2023 - May 2023)

- Conducted exploratory data analysis (EDA) on retail sales data to identify revenue trends.
- Created interactive dashboards using Tableau to present insights.
- **Technologies:** SQL, Tableau, Python

## WORK EXPERIENCE

### Freelance Software Development & AI Projects (2023 - Present)

- Worked on multiple projects related to data cleaning, predictive modelling, and visualization.
- Provided cloud deployment and system architecture consulting, integrating AI models into scalable environments.

## CERTIFICATIONS & TRAINING

- **Azure Cloud**  
Microsoft Training (*In Progress*)
- **Power BI Dashboards**  
Maven Analytics (*In Progress*)

## LEADERSHIP & COMMUNITY INVOLVEMENT

### PRO - IEEE Chapter @ University of Bolton (2023 - 2024)

- Organizing events, promoting IEEE initiatives, and engaging with the student community to foster interest in technology and research.