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Mumbai, India  
jayoza198@gmail.com

# Jay Oza

## Data Scientist / Junior Developer

Portfolio: Jay Oza  
github.com/jayoza198  
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### EXPERIENCE

#### Nutriva Lifescience Pvt Ltd.

Mumbai - India, Onsite

Data Science Intern

Jun 2023 – Jun 2023

- Developed and deployed an end-to-end healthcare data analysis web-app, handling over 1 GB of complex data. Extracted valuable insights and ensured data accuracy through interactive visualizations, receiving exceptional feedback from leaders.
- Spearheaded the design of a centralized healthcare product database, optimizing querying and data management. Safeguarded data integrity, seamlessly integrating with existing systems for enhanced capabilities.
- Streamlined inventory management by linking data from more than 3000+ merchants, ensuring accuracy and reliability. Optimized database performance and harmonized processes, boosting overall efficiency.

#### Omdena

Mumbai - India, Remote

Machine Learning Engineer / Credit Score Analysis

Jun 2023 – Jul 2023

- Executed impactful finance project using Benin's banking dataset, boosting credit score analysis accuracy from 56% to 83% with machine learning. Collaborated with Omdena, employing ensemble learning algorithms (XGBoost, Random Forest) and SVM. Enhanced efficiency through fairness, domain knowledge integration, and optimized data pipeline.
- Spearheaded critical finance project, achieving remarkable 83% accuracy (48% increase) in credit score analysis. Leveraged ensemble learning (XGBoost, Random Forest) and SVM techniques. Ensured fairness, incorporated domain knowledge, optimized data pipeline, and conducted rigorous testing for reliable loan classification model.

NLP Engineering Intern / NLP on Disaster Tweets

May 2023 – Jun 2023

- Collaborated with a global team at Omdena to develop a highly accurate NLP-based machine learning model for categorizing disaster-related tweets. Leveraged advanced techniques like sentiment analysis, PyTorch, Transformers, and Cohere API, resulting in exceptional accuracy improvements.
- Led the creation of a user-friendly web application to enhance emergency response efforts. Successfully addressed data quality and bias issues, optimizing BERT Models (increased accuracy by 22%) & performed exploratory data analysis. Presented findings to the project head, showcasing the impact of the model on disaster response.

Data Scientist Intern / Recommender System for Grocery Shopping in Berlin

Apr 2023 – May 2023

- Collaborated with a dynamic team at Omdena to develop a groundbreaking personalized recommendation system for grocery shopping in Berlin. Expertly integrated advanced data analysis techniques, machine learning algorithms (such as collaborative filtering, content-based filtering, and matrix factorization), and state-of-the-art recommendation models.
- Achieved a remarkable 15% increase in accuracy, revolutionizing the grocery shopping experience and making a tangible real-world impact.
- By leveraging advanced algorithms and models, including collaborative filtering, content-based filtering, and matrix factorization, the system supports local businesses and reduces waste, transforming the grocery shopping experience in Berlin and beyond.

Machine Learning Engineering Intern/ Monitoring and Predicting Air Quality

Mar 2023 – Apr 2023

- Played a key role in identifying predictors of air quality levels, utilizing cutting-edge machine learning algorithms such as LSTM (resulting in a significant accuracy improvement of 18% compared to ANOVA) and DARTS (proven to excel in bivariate data accuracy).
- This transformative experience significantly elevated my expertise in data analysis and machine learning, leading to a notable increase in skill proficiency.
- Moreover, it provided invaluable insights into fostering effective collaboration within a diverse team, resulting in an impressive boost in project efficiency.

#### Max Conformance

Mumbai - India, Remote

Business Development & Management Intern

Mar 2023 – May 2023

- Proactively engaged in business development efforts as a Management Intern at Max Conformance, effectively reaching out to CISOs of diverse companies via LinkedIn and other platforms to promote the company's product.
- Collaborated closely with the CTO and CEO, leveraging their expertise and guidance to gain valuable insights into the operations and strategic decision-making processes of a SaaS startup.
- Demonstrated strong interpersonal skills and effective communication in building connections with CISOs, contributing to the expansion of Max Conformance's network and fostering potential business opportunities.

#### PHJ Technologies

Mumbai - India, Remote

App Development Intern

Jul 2022 – Aug 2022

- Working closely with subject matter experts to curate and review the company's educational content.
- Working on design, development and integration of the application product for the chemical engineering team and has become a valuable resource for practical education and training.
- It was incredibly rewarding to see the app being used by the employees helping to make a positive difference in the team's knowledge.

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### Devic Earth

Data Analyst

Bangalore - India, Remote

Jan 2022 — Feb 2022

- As a data analyst intern at Devic Earth, I worked on a project that allowed me to make a tangible impact on the business.
- By providing clean and accurate data to our clients and Devic Earth which helped to improve decision-making and drive business results by providing solutions for their product efficiently.

### EDUCATION

**B.Tech in Computer Engineering**, K.J. Somaiya Institute of Technology  
**B.Sc in Data Science & Programming**, Indian Institute of Technology, Madras

Jun 2020 - Present

Nov 2020 - Present

### SKILLS

Languages	Python, HTML, SQL, CSS, LaTeX, Markdown
Databases	MySQL, Excel, Access, Firebase, SQLite3
Frameworks	Tensorflow, Keras, Django, Flask, Pytorch
Libraries	Seaborn, Scikit Learn, Numpy, Pandas, Matplotlib, Darts, Plotly
Others	Git, GitHub, Tableau, PowerBI, Terminal, Streamlit, Hugging Face, MLflow

### PROJECTS

#### NextQuest

- Pioneered a groundbreaking context-aware language model project, "Predicting User's Next Question," that garnered awe-inspiring results, boasting an extraordinary BLEU score of 0.85 for question generation.
- Leveraged cutting-edge libraries including torch, transformers, and cohere API, pushing the boundaries of advanced model training and unleashing the true potential of data-driven innovation.

#### Butler.ai

- Butler.ai is a one-stop solution for all your content-related needs.
- Our advanced Q&A prompt, Summarization and Rephrasing services can help you find answers efficiently.
- Additionally, our text summarization and paraphrasing tools can help you condense and rewrite long pieces of text with ease.

#### Movie Ticket Booking WebApp

- The movie ticket booking web app is a user-friendly platform built using Python, Flask, and SQLite3.
- It allows users to easily search and book tickets for their favourite movies, with the help of Jinja2 templates.
- Developed a mobile ticket booking application with extensive features for both admin and users, including user authentication, show management, booking system, and seamless user experience.

#### NFT Tweets Sentimental Analysis

- Developed a powerful Twitter scraper utilizing the Twitter API to extract real-time data based on keywords, hashtags, user handles, or geolocations. Ensured data integrity and scalability for collecting comprehensive data to build an up-to-date dataset.
- Employed sentiment analysis techniques using NLP and machine learning algorithms to determine the sentiment (positive, negative, or neutral) of NFT-related tweets. Generated valuable insights on public opinion, sentiment trends, and customer feedback.
- Implemented visualization and reporting features, presenting sentiment analysis results through intuitive visualizations like bar charts, word clouds, and sentiment distribution plots. Empowered data-driven decision-making and provided market insights.

#### Customer Analysis Dashboard - Tableau

- Developed a comprehensive dashboard in Tableau showcasing customer segmentation, providing valuable insights into customer behaviour and preferences.
- Analyzed revenue generated by each state, gender-based revenue distribution, and region-wise gross revenue, enabling data-driven decision-making for targeted marketing strategies.
- Explored the correlation between quantity and discount, uncovering potential opportunities for optimizing pricing and promotions to maximize profitability.

### ACHIEVEMENTS

- Proficient **Kaggle Expert** with a proven track record of successful competition participation, high-ranking notebook submissions, and active engagement in fostering insightful discussions within the Kaggle community.
- I won 1st prize in DataThon for Exploratory Data Analysis, showcasing my analytical skills and ability to derive insights from complex data sets.
- I had a thrilling experience participating in the Data Science Hackathon by BSE, putting my data analysis and machine learning skills to the test and competing with other talented data scientists.
- I am proud to have received a Certificate of Merit in the Computer Vision Hackathon, showcasing my expertise in computer vision and image analysis. It was an exciting challenge and I enjoyed every moment of it!