Jay Oza

Data Scientist / Junior Developer

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Portfolio: Jay Oza
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EXPERIENCE

Nutriva Lifescience Pvt Ltd.   **Mumbai - India, Onsite**
Data Science Intern   *May 2023 – Present*
- Developed and deployed an end-to-end healthcare data analysis web-app using Streamlit and Python, handling over 1 GB of data. Leveraged data science techniques to extract valuable insights and trends from large datasets. Implemented interactive visualizations which ensured data accuracy and reliability. Received positive feedback from team leaders and the CEO.
- Led the architecture and development of a centralized healthcare product database for Nutriva Lifesciences Pvt Ltd. Designed a scalable schema for efficient querying and data management of healthcare products.
- Streamlined inventory management through data linking with merchants. Utilized advanced data modelling techniques to ensure data integrity and optimize database performance. Integrated the database seamlessly with existing systems.

Omdena   **Mumbai - India, Remote**
Machine Learning Engineer / Credit Score Analysis   *Jun 2023 – Present*
- Developed and executed a finance project with the help of Benin's banking dataset, achieving a significant increase in credit score analysis accuracy from 56% to 83% through the application of machine learning. Collaborated with Omdena, utilizing ensemble learning algorithms (XGBoost, Random Forest) and SVM. Ensured fairness, incorporated domain knowledge, and optimized the data pipeline for enhanced efficiency.
- Spearheaded critical finance project, achieving remarkable 83% accuracy (48% increase) in credit score analysis. Leveraged ensemble learning (XGBoost, Random Forest) and SVM. 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*
- As a Machine Learning Engineer at Omdena, I collaborated with a global team to develop an NLP-based machine learning model that accurately identified and categorized disaster-related tweets.
- Using advanced techniques like sentiment analysis and LSTM models, we created a user-friendly web application to improve emergency response efforts.
- My contributions included conducting data analysis, addressing data quality and bias issues, modelling and presenting findings to the project head.

Data Scientist Intern / Recommender System for Grocery Shopping in Berlin   *Apr 2023 – May 2023*
- As a Data Scientist at Omdena, I collaborated with a dynamic team to develop a personalized recommendation system for grocery shopping in Berlin that supports local businesses and reduces waste.
- By leveraging advanced data analysis techniques and machine learning algorithms, we created an innovative engine that provides consumers with informed purchasing decisions based on their individual preferences.
- Our groundbreaking solution has the potential to transform the grocery shopping experience in Berlin and beyond, while making a real-world impact.

Machine Learning Engineering Intern/ Monitoring and Predicting Air Quality   *Mar 2023 – Apr 2023*
- As a team member at Omdena, I collaborated with professionals from diverse backgrounds on a project aimed at mitigating air pollution by analyzing air quality patterns.
- My responsibilities included identifying predictors of air quality levels and using machine learning algorithms such as LSTM and DARTS to forecast air quality levels accurately.
- This experience has allowed me to enhance my skills in data analysis and machine learning, while also providing me with valuable insights on working effectively with a diverse team.

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 Coformance'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

Banglore - 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* Jun 2020 - Present
B.Sc in Data Science & Programming, *Indian Institute of Technology, Madras* Nov 2020 - Present

SKILLS

Languages	Python, HTML, SQL, CSS, LaTeX, MarkDown
Databases	MySQL, Excel, Access, Firebase, Sqlite3
Frameworks	Tensorflow, Keras, Django, Flask
Libraries	Seaborn, Scikit Learn, Numpy, Pandas, Matplotlib, Darts, Plotly
Others	Git, GitHub, Tableau, PowerBI, Terminal, Streamlit, Hugging Face, MLflow

PROJECTS

Butler.ai
- Butler.ai is a one-stop solution for all your content-related needs.
- Our advanced QA 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 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!