

Mohammad Najeed Osmani

Data scientist

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🧩 CAREER SUMMARY

- **Data Scientist with 2.5+ years of experience** at Celebal Technologies, with a proven track record of leading diverse projects in **Fashion, Retail, Telecommunication, and Oil and Gas industries**. Specialized in delivering end-to-end solutions, from data Preprocessing to Deployment
- I have **directly engaged with clients** in a project, assumed a leadership role in managing a team of two individuals to ensure the project's success, and provided **direct reporting to the Principal Consultant**.
- **OpenAI** represents a significant advancement in the field of AI, and I have successfully completed multiple projects utilizing its capabilities. My expertise also lies in projects related to **Large Language Models (LLMs)**.

🧠 SKILLS

Core Skills

Business Intelligence, Machine Learning, Data Analysis, Data Analytics.

Cloud/Deployment

Azure, Teradata, Docker, Kubernetes, Databricks, Cognitive services, GitHub.

Technical Skills

Python, Open AI, Langchain, Keras, Pytorch, HuggingFace, Scikit-learn, SQL, Spark, Faiss, Redis.

Practical Skills

Machine Learning, Natural Language Processing, Transformers , Large Language Models(LLMs), MLOPs

📁 PROFESSIONAL EXPERIENCE

Celebal Technologies 🔗

Data Scientist

September 2021 – present | Jaipur, India

KPI Bot:

- Developed an end-to-end chatbot using GPT-3.5 Turbo, interpreting natural language queries and fetching data using SQL.
- Deployed the chatbot on the cloud, enabling the CEO to access and visualize KPIs and facilitating data-driven decision-making.
- Streamlined user interactions for easy KPI retrieval and trend comparisons. Enhanced business decision-making by simplifying data access and analysis through the chatbot.
- The bot is seamlessly integrated with PowerBI, enabling comprehensive monitoring and analysis of query-related parameters. This includes tracking various query types, identifying out-of-scope queries, and meticulously measuring response times to ensure optimal performance and user satisfaction.

Trade Assistant Bot:

- I have created a trading bot for a global commodities company that efficiently handles trade rules, regulations, and tariffs.
- The bot communicates with PDFs and Excel data, enabling quick and accurate access to vital information, streamlining operations, and decision-making in international trade.
- Structured(Excel) and Unstructured(PDF) data were handled separately while feeding to the model, preprocessed data that better suits the model's requirements.
- Generated OpenAI embeddings (Ada) of all the parsed documents and stored them in a Redis db(Indexer).
- Providing the user's query and relevant documents to the GPT-3.5 turbo model's prompt to extract and rephrase the required answer.
- Deployed the whole solution using Azure app services, Integrating the solution with the front end.

Allocated Water-Oil-Rate Prediction:

- The project aim was to perform a Regression model that can predict the Allocated water-oil ratio.
- Exploratory data analysis was done on the data by identifying all important patterns and insights.
- The model was built on this data and we further minimized the error by applying feature engineering techniques to remove lesser important features.
- Tuning the model using Hyperparameter tuning techniques like Optuna and Bayesian Optimisation.
- Batch deployment of the model was made using Azure ML Studio and Azure Data Factory and scheduled this pipeline to run on an hourly basis.


Data scientist - Trainee


May 2021 – August 2021 | Jaipur, India

Customer churn prediction:

- The goal of this project was to predict and identify the customers who are at higher risk of churning out based on historic data.
- Exploratory data analysis based on historic sales data for analyzing and finding out patterns and insights.
- Predicting a set of customers who are at a high risk of churning out, with predictive analytics machine learning models based on historic sales data.
- Data Ingestion Pipeline from Azure Synapse and running ETL Job over Databricks.
- MLOPs is achieved by deploying the model on Azure app services, versioning code on Azure Repos which does CI-CD, and Monitoring the Model using Azure Monitor.

CERTIFICATES

Databricks Certified Machine Learning Professional  (Earners of the Machine Learning Professional certification have demonstrated an ability to perform advanced machine learning tasks using Databricks Machine Learning and its capabilities.)

Academy Accreditation - Databricks Lakehouse Fundamentals  (Earners of the Lakehouse Fundamentals accreditation have demonstrated the understanding of fundamental concepts related to Databricks Lakehouse Platform.)

AZ-900 Azure Fundamentals Certification (As a candidate for this exam, you're a technology professional who wants to demonstrate foundational knowledge of cloud concepts in general and Microsoft Azure in particular. This exam is a common starting point in a journey towards a career in Azure.)

ACHIEVEMENTS

Kaggle Bronze Medal

Won Bronze medal in a Kaggle competition "GoDaddy - Microbusiness Density Forecasting". The goal of this competition was to predict monthly microbusiness density in a given area. I have developed an accurate model trained on U.S. county-level data.

MachineHack Best Global Rank - 42

I have participated in more than 60+ Hackathons and Competitions collectively and was ranked in top 1 percentile in more than 40+ hackathons, making me exposed to versatile problem statements and applying unique solutions to solve them up.

Runner Up (Rank 2) in a ML Hackathon

In this competition provided the visitor's session data, we were challenged to come up with a regression algorithm to predict the time a buyer will spend on the platform.

Rank 10 in Job-a-thon by Analytics Vidhya

I took part in "JOB-A-THON," presented by Analytics Vidhya, which is India's most extensive Data Science Hiring Hackathon. This event offers data science enthusiasts the chance to demonstrate their skills and potentially secure interviews with prominent companies for key positions in Data Science, Machine Learning, and Analytics.

Top 1% (Rank 41 out of 2514 participants)

I participated in TheMathCompany, a modern consulting firm that builds Custom AI Applications for Fortune 500 companies. They enable data analytics transformations and are rapidly growing with a team of 600+ experts. It's an exciting opportunity to be part of their journey.