

Brief Portfolio projects undertaken:

1. Data Analyst stint - WinZO Games

Being the only data analyst on the gaming startup team, I was able to learn, design, and develop the entire BI system of the startup from scratch using PowerBI.

Project: Technologies/Tools used

- **User Behavioural analysis:** Python: Numpy, SQLite, Matplotlib
- **Cost-to-Revenue analysis:** PowerBI, DAX, MsSQL
- **Small-batch A/B tests** to determine the **optimum pricing strategy:** PowerBI, DAX, MsSQL, Cost-Research on Google and Player Feedback.
- **Dashboards for analyzing DAU's/MAU's:** PowerBI, DAX, MsSQL
- **Analyzing difficulty levels in almost real-time:** Python, Pandas, SQLite, Seaborn

2. Data Scientist stint - Emirates Shipping Line

Started by being the only technical developer in the UAE office and worked with the VP of IT for the organization.

Project: Idea and Technologies/Tools Used

- **NLP-based Email response bot:** Designed, developed and created data model out of information taken only from Outlook email files of customer service agents to train a model to respond to queries. Python: RasaNLU, NLTK, SQLite, Sklearn (SVM for training the end-model).
- **Operations Predictive Analytics:** Designed and developed an algorithm for analysing optimal capacity allocated and used at all the ports. MsSQL, QlikView and Python (for internal team analysis): Pandas, SQLite, Matplotlib, Sklearn
- **Time Series Sales Prediction:** Extracted all sales data over time and trained two models specifically for: Key industries for import-exports & All cities/ports. Python: Numpy, SQLite, Sklearn, Statsmodel - k-ARIMA model.
- **Global Capacity Dashboarding:** MsSQL, QlikView
- **Port-to-Port, Port-to-Consumer, Consumer-to-Port Dashboarding:** MsSQL, QlikView
- **Global Inventory Dashboarding:** MsSQL, QlikView
- There were over 25 dashboards I worked on designing and developing in a short span of 3 months, which included creating the required stored procedures and visualizations.

3. ML training and learning - Self

- **Image Classification using TensorFlow & PyTorch:** Object identification and classification
- **Text Prediction:** Doing the projects over on freecodecamp and Kaggle
- **Walmart M5 Competition:** First Kaggle competition participation.
- Lastly, I am working on an audio to text translation open-source project to be released as a python package using free API's like Systran.io translation and training models for audio extraction for video in real-time. My idea of the application of this project is as a plugin for any video-conferencing platforms.