My Projects

Tell us a bit about a project you have built or worked on and are most proud of. Keep it brief.

One of the project that I'm most happy to complete was this project since I also had a time constraint to complete this. In a nutshell, it was to predict the future weather conditions of Delhi city. Below points give a brief idea of the process I followed to complete the project:

• Weather Forecasting is the process of making predictions of the future, based on past and present data of the weather.

• This could be also be used other types of time series data such as stock prices, market price variations, etc.

Tell us how you went about formulating the problem in the above answer. What was your biggest challenge and how did you overcome it?

• We used ARIMA model(Auto Regressive Integrated Moving Average) to analyse and predict the time-series data and we shall also perform rigorous exploratory data analysis and visualizations on the dataset.

• Feature Engineering – selecting required attributes.

• Data cleaning – renaming attributes and filling missing data.

• Check rolling mean and standard deviation (graph must not vary too much for stationarity).

• Perform Augmented Dickey–Fuller test (to check for stationarity)

• plotting PACF(partial auto correlation function) and ACF(auto correlation function) to find p and q values of ARIMA model.

• Fitting and forecasting the model for temperature data.

The biggest challenge was to collect the data for this project, which is usually with most data analytics/ Machine learning project. We had to take into account past 20 years of weather data and clean and use relevant metrics only to squeeze the best possible dataset for the model.

Total experience:

1. Sap Labs India – Developer Associate - Jun 2021 – Feb 2022.
2. Accenture India Pvt. Ltd. – Application Development Associate - Nov 2020 - Jun 2021.
3. Digital.ai – Advanced Analytics intern - Jan 2020 – Jun 2020.
4. Mindmatrix.io – Machine Learning - Jun 2019 – Jul 2019.

Projects:

1. Heart Risk Prediction.
2. Image classification of various animals using CNN.
3. Data Visualization on Bengaluru restaurants.
4. Web Application for smart notice board management.
5. Comic store - A front end application where a user can view comics available in the store.
6. Implementation of decision tree on titanic data
7. Prediction of house prices using decision tree regressor.
8. Web automation tests using selenium webdriver.
9. Recommending similar movies based on cosine similarities of various movies using TMDB_5000 dataset.
10. Parking database using C++ and file system.
11. Startup landing page - using bootstrap and mailchimp to create a website.