

---

---

# Problem 2

— Predict forecast for  
Time Series —

---

---

# Insights:

1994,2000,2001,2004,2005, 2006 were outlier years.The average no of people visiting the Hotel increased abruptly in comparison to previous years.Maybe due to some yearly/bi yearly events such as Olympics/Music Festival lead to abrupt increase in these years.

A seasonality was observed particularly in the months of April-August every year which is quite common for tourism industry.

No of people visiting is increasing every year giving rise to increasing trend rising upwards.

# Model: LSTM

LSTM(Long Short Term Memory) was used for the problem. LSTM is a type of RNN with addition of forget gate which serves excellent choice for problem related to window information capture such as Time series, NLP, NER etc.

