

DINESH BABU K

DATA SCIENTIST

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Current Location: Bangalore

Contact: +91 8072215500

Total Experience: 2 Years 10 Months

Profile Summary

- Meticulous Analytics professional with **2.10 years** of diverse industrial experience in design and implementation of statistical data models. Areas of expertise include Data Analysis, Statistical modelling, Data Visualization and Business Development.
- Understanding the problem statement and finding the solutions in effective ways.
- Implementation of various pre-processing techniques on data like handling outliers, imbalanced data, feature selection, handling nan values, feature scaling etc.
- Worked on ANN, CNN to build predictive model with good accuracy.
- Built predictive models using Keras library.
- Good knowledge in RNN, LSTM, word embedding techniques.

Skills

Pre-processing: Pandas, Numpy

Visualization: Matplotlib, Seaborn

Machine Learning Libraries: Sci-kit Learn, Keras, TensorFlow, OpenCV, NLTK

Language: Python, R, SQL

Techniques

- Artificial Neural Network (ANN)
- Convolutional Neural Network (CNN)
- Natural Language Processing (NLP)
- Computer Vision
- Face Net
- Long Short-Term Memory (LSTM)
- Linear Regression, Logistic Regression
- Random Forest
- XG Boost, Gradient boosting
- Support Vector Machine (SVM)
- K-Means Clustering

Experience

ABM Web Solutions Pvt Ltd—3rd May 2018 to present

Failure prediction system – Titan International, USA

- Developed a model of "**Failure prediction system**", which helps in detecting the failure of a machine (any manufacturing industry machines) by analysing various parameters like Temperature, Humidity, Vibration, etc.
- This prediction system involved all the failure scenario data as the training set, and I have implemented XG Boost Algorithm on all the data to predict each parameter individually for the next 4 hours.
- If we see any pattern which is similar to the Failure scenario, we would immediately trigger an alarm at the manufacturing plant. This would help them prevent a machine to get failed.

Automated Attendance System—Titan International, USA

- Implemented "**Automated Attendance System**" as a POC project at Titan International.
- This AI code can recognize who the person is with an accuracy of 92%. Once the person is identified, current system time is also noted. If the face recognized is for the first time of the day, it would be his "**In Time**". Between the working hours, the exit of the employee is also captured by secondary camera.
- The last time that the employee was seen on that day, would be the "**Out time**" of the employee. Overall productivity of the employee of each day can also be monitored. Algorithm used was "**Face Recognition (Face Net)**" and training data includes multiple photographs in different angles as well as different lighting conditions of all the employees in the organization.

Sales Prediction model - Westfield Group, USA

- Developed a "**Sales Prediction model**" for a store, which helps to predict how much revenue to expect in a given time frame, what decision to take on, allocate budgets, manage the workforce, purchase equipment, and control cash flow, plan for future business growth.
- Analyzing sales data to find the customer pattern which will help to predict customer behaviour and needs. Have used XG Boost Algorithm to predict the sales of the store for next month and make them alert for the requirements in advance.

Education

- B.E in Civil Engineering from Bannari Amman Institute of Technology, Erode with 72% in the year 2015.
- 12th standard from SVN Matriculation and Higher Secondary School, Erode with 91 % in the year 2011.
- S.S.L.C from Government Higher Secondary School, Erode with 89 % in the year 2009.

Personal Details

Father's Name : Kumar A
DOB : 03/03/1994
Marital Status : Single
Languages : English, Tamil, Hindi, Kannada