

PROFILE IIAAI04

📄 Summary

- 8+ years of experience in Machine Learning, Statistical, Modeling, Time Series forecasting, Computer vision and Image processing.
- Executing data-driven solutions to increase efficiency, accuracy, and utility of internal data processing.
- Experiences at creating data regression models, deep learning models using predictive time-series modeling.
- Analyzing algorithms to deliver insights and implement action-oriented solutions to complex problems.
- Worked on Supply chain, Insurance and Retail domain.
- Good team player with excellent communication, analytical, written and presentation skills with strong aptitude towards learning new technologies.

🛠️ Technical Skills

- **Programming Languages:** Python.
- **Machine Learning:** Linear regression, Decision trees, Random forest, AdaBoost, Gradient Boosting, XGBoost, Light GBM, Time -Series Models like AR, MA, and ARIMA.
- **Deep Learning:** Deep learning algorithms – CNN, RNN, LSTM
- **Computer vision:** Developing image analysis algorithm and deep learning architecture to solve problems. Designing & creating platforms for image processing and visualization.

🎓 Education

- M.Tech (Machine Drives & Power Electronics) from **IIT Kharagpur**.
- B.Tech (Electrical & Electronics Engg.) from JNTU.

💻 Work Experience

Work Experience#1

. Oct. 2019 - Present Role: Data Scientist.

Technologies: Python, R, Machine Learning, Deep Learning, Open-CV, TensorFlow and Keras.



Responsibilities:

Developed an Automate the aircraft engine leasing return

- To identify Crack detection and missing engine parts of an aircraft.
- In case of Internal Inspection (Bore scope) a structural similarity model was built to detect defects in the images compared to the before ones using computer vision through image processing.
- Build similarity detection model using Open-CV (Computer vision, Image processing) to detect damaged/missing parts of aircraft engine.
- The defects categorized into Major, Medium and Minor defects, depending on the intensity of damage.
- Tested the performance of the end to end workflow and analyzed for improving the model performance

Demand forecasting of aircraft spare parts

- Based on the historical dataset several statistical, machine learning and deep learning models were built to predict order demand for individual product.
- The data was stationary and after several tests.

Work Experience#2

Role: Associate Data Scientist.

Technologies: Python, Machine Learning, Deep Learning.

Responsibilities:

Developed Power Distribution Network prediction model

- Built an effective correlates communication between Load and Generation side point of view of a Distribution Network Operator in a region.
- Built an end to end Auto ML product for time series for automated training and prediction for next day power demand.
- Analyzed and processed the whole process in different scenarios with respect to Power generation and power tariffs changes in whole day
- The number of E-cars required to meet the demand in a given hour & feed-in-Tariff given on a specified day selected by the customer.

Developed an custom based object detection API using TensorFlow.

- Created an accurate Machine Learning model capable of localizing and identifying multiple objects in a single image.
- Construct, train object detection models. There are many model parameters to configure, the best setting will depend on application.
- Faster R-CNN model is better suited as the accuracy is high and latency is of lower priority
- Faster RCNN model is high accurate with slow speed.

Work Experience#3

July 2012 – Dec 2015 Role: Senior Electrical Engg.

Responsibilities:

- Execution of the day preventive/predictive maintenance schedule as per assigned for equipment's
- Execute maintenance activity during over
- Routine inspection of equipment's and communicating the abnormalities to shift in charge.
- Preparation of spare parts of the equipment's

Career Highlights and Professional Achievements

- Represented School in National Level Hockey at New Delhi.
- Won First Place in Hockey Tournament – School Level at Hyderabad.

