Manabendra Rout

manabendrarout@gmail.com | +91-7757088502

SKILLS

PROGRAMMING

Python 3 • R • VBA • HTML CSS

MACHINE LEARNING

Regression • Classification • NLP CV • Clustering • Process Mining Anomaly Detection • DNN

PACKAGES

Pandas • Numpy • Scipy Scikit-learn • Tensorflow • NLTK Spacy • Transformers • OpenCV Matplotlib • Seaborn • Plotly

DATABASE / ETL

MongoDB • MySQL • Hadoop Spark • HIVE • HBase Sgoop • Crontab • Airflow

GUI

Flask • Django • Dash PyQT5 • Tkinter • Shiny

BI TOOLS

MS Power BI • Tableu

LINKS

Github://mrout94 LinkedIn://manabendrarout

EDUCATION

NIT ROURKELA

B. TECH IN MECHANICAL ENGINEERING

Grad. May 2016 | Odisha, India Cum. GPA: 8.08 / 10

ODM PUBLIC SCHOOL

AISSCE IN SCIENCE Grad. May 2012 | Odisha, India Percentage: 89.2%

ODM PUBLIC SCHOOL AISSE

Grad. May 2010 | Odisha, India Cum. GPA: 9.2 / 10

EXPERIENCE

OPTUMRX | DATA SCIENTIST

September 2020 - Present | Noida, India

- Worked on the Process Mining team in building a dashboard to identify actual processes from data-logs, provide insights to optimize process life-cycle and predict upcoming process deviations/delays.
- Topic modelling on order cancellations comments to discover actionable areas and reduce further cancellations.
- Time-Series analysis using LSTM to predict daily order shipments using historical data.

BAJAJ AUTO LTD. | ASSISTANT MANAGER, R&D DIVISION

July 2016 - September 2020 | Pune, India

• Using Quantitative as well as Statistical models to predict Durability and Dynamic behaviour of Engine components for motorcycles.

ML:-

- Developed a statistical model using GBM to predict bearing frictional loss based on some basic geometrical dimensions and usage which reduced turnaround time by 12%. Deployed across whole research division.
- Developed an end-to-end internal tool using DNN to predict strength of ferrous materials using their material composition (numerical data) and manufacturing methods (categorical data). Deployed and running as a web-service on local network.
- Created various internal tools based on Data driven Statistical models using ML to solve design and quality issues specific to components.
- Developed a Statistical model using the logged data to suggest important strategic decision and optimization of available resources.

Visualization/GUI:-

- Developed a robust data Ingestion, Processing and Visualization framework using Python, Plotly and Flask.
- Increased resource management efficiency by 35% by developing a PyQT5 based GUI for Queue management tool to track and assign license tokens to users based on requests and task priority. This also employed a MongoDB based database to record user requests, frequency, workload pattern, etc.

Process Automations:-

• Accomplished 90% reduction in time and 20% improved accuracy by developing a web-framework for test-data handling, processing and storing in an MongoDB database. Framework was up & running in production server.

TATA MOTORS | SUMMER INTERN

May 2015 - July 2015 | Jamshedpur, India

- Anomaly detection, source identification for large scale torque variations among all production Cargo-Truck engines.
- Key process parameters identification and ranking based on output correlation.
- Achieved 35.7% reduction of variation band after implementation of suggested modifications on process parameters.