

Deepak kumar

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SUMMARY

5+ years of experience as a Data Scientist with proven success in building successful algorithms & predictive models for different industries. Proficient in Regression, Classification, and Text Mining, and adept in data analysis and visualization techniques to optimize business operations. Skilled in applying Machine Learning strategies and algorithmic development to tackle complex real-world challenges, passionate about engineering solutions that drive business efficiency.

SKILLS

1. **Programming Language:** Python, Pyspark, R, SQL, C, C++
2. **Packages:** Scikit-Learn, NumPy, SciPy, Pandas, NLTK, BeautifulSoup, Matplotlib, Statsmodels, Seaborn
3. **Statistics/Machine Learning:** Statistical Analysis, Linear/Logistic Regression, SVM, KNN, Random Forests, XGBoost, LightGBM, Clustering, Boosting methods, Neural Networks, Regularizations
4. **Deep Learning:** CNN, RNN, LSTM, Transformer, Transfer Learning, GANs
5. **Statistical Forecasting techniques :** Time series, ARIMA, ARIMAX
6. **Natural Language Processing, Sentiment Analysis, Named Entity Recognition**
7. **DL Frameworks:** TensorFlow, Keras
8. **Azure Databricks, Azure Data Factory, GCP, Vertex AI, SparkML, Pyspark Models**
9. **Recommendation System, Docker, MLops, PowerBI, AGILE Methodology and JIRA Tools**
10. **Generative AI , LLM, Langchain, Prompt Engineering, Vector Databases**
11. **Supply Chain, CPG ,Retail domain**

PROFESSIONAL EXPERIENCE

Senior Data Scientist

Apr '24 - Present

Fractal Analytics | Gurugram,IN

Technology Stack: Python, Pandas,SciKit-Learn, Matplotlib, Pyspark , Databricks , Azure , PowerBi , Machine Learning,GenAI

Data Science Consultant

Oct '21 - Apr '24

Tredence Analytics | Gurugram,IN

Technology Stack: Python, Pandas,SciKit-Learn, Matplotlib, Pyspark , Databricks , Azure , PowerBi , Machine Learning

1. Service level Prediction Project (Supply chain problem)

Problem Statement:

- The client has been facing penalties for failing to deliver orders on time or in full, which has been a cause of concern.
- It is difficult to predict the exact amount of penalty that might be incurred, making it challenging to take necessary corrective actions.
- Therefore, the client wants to have better visibility in advance to identify the drivers behind unfulfilled customer orders and take appropriate measures.

Solution:

- Developed a predictive model that can forecast On-Time-In-Full (OTIF) for open orders within a period of 0-4 weeks.
- Identified the systematic causes of delayed or incomplete deliveries and recommended corrective actions to mitigate them.

- Successfully executed end-to-end project pipelines, demonstrating proficiency in problem framing, data preprocessing, model selection, training, evaluation, and deployment

2. Order Recommendation System for Sales Maximization and Inventory Optimization

Technology Stack: Python, Pandas, SciKit-Learn, Matplotlib, Pyspark, Databricks, Azure, PowerBI, Machine Learning, Time Series, Holts winter, ARIMA, ARIMAX

- To design and implement an innovative Order Recommendation System aimed at advising clients on optimal ordering timings, material selections, and quantities. The primary objective is to enhance sales performance while minimizing excess inventory levels.

Solution:

- Developed an Order Recommendation Engine, utilizing advanced algorithms and data analysis, to predict the optimal timing and product recommendations for individual customers.
- Improved sales performance by suggesting cross-selling and upselling opportunities to customers, leading to increased revenue.
- We have reduced inventory wastage by identifying and prioritizing products at risk of obsolescence, resulting in cost savings and more efficient inventory management.

3. Stock Order Transfer Smoothing Optimization Project

- The client is spending significant time and money on manually adjusting STOs. The deployment team reviews all STRs that are created by the SAP deployment optimizer daily.
- Implemented optimization solutions for load building and load rebalancing to improve efficiency and reduce costs
- Prioritized approved STOs based on customer demand, shelf life, and inventory levels at receiving DC using optimization solutions of load building and load rebalancing.
- Reduced manual workload by up to 1.75 hours per day by automating STO rejection, acceptance, modification and creation.

Apr '18 - Oct '21

Tata Consultancy Services | Hyderabad, IN

Technology Stack: Python, Pandas, NumPy, SciKit-Learn, Matplotlib, Jupyter Notebook, Machine Learning

- Certified TCS iON ProCert -"Analytics" with a good understanding of the business requirements and developing the new insights, solutions using Machine learning models and techniques
- Involved in Requirement gathering with various clients for various use case and feasibility check for all the requirement with timeline.
- Execute end-to-end activities in the Data Science Life cycle i.e. Data Cleaning and Pre-processing, Feature engineering, Feature selection, Model creation and hyperparameter tuning, and Model deployment.

EDUCATION

Bachelors in Electronics and Communication Engineering

Jul '13 - Jun '17

GIET UNIVERSITY-GUNUPUR, ORISSA | Orissa, IN

8.34 CGPA

CBSE Grade 12 Exam

Apr '11 - Mar '13

Dav Public School Pakur, Jharkhand | Pakur, IN

86 %

CERTIFICATIONS/TRAINING

- Post Graduate certification in Data Science & Artificial Intelligence | Edvancer Eduventures
- TCS iON ProCert -"Analytics" Certification
- NLP with Python for Machine Learning Essential Training Certification | LinkedIn