



Dipanshu Kumar Singh

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Career Objective

To leverage my experience as a Data Analyst by applying advanced skills in data visualization, statistical analysis, and business intelligence, while expanding into a challenging role that incorporates data modeling and predictive analytics to deliver actionable insights and scalable solutions. I aim to drive business growth by solving real-world problems, collaborating across teams, and continuously enhancing my technical expertise.

Work Experience

Technocolabs Software Pvt Ltd.

Dec – 2024 Present

Data Analyst

Projects: AI & GenAI-Based Logistics Optimization Last-Mile Logistics

Key Tasks:

- Designed and implemented a predictive system to optimize delivery partner allocation and enhance last-mile logistics operations
- Developed machine learning models LightGBM, Random Forest, KNN, FNET for ETA prediction, using real-world
- Applied Graph Neural Networks ST-GCN, DCRNN for spatio-temporal demand forecasting across urban regions
- Engineered features such as courier load, traffic density, rush-hour flags, and road types; addressed class imbalance with SMOTE and custom pipelines
- Built and deployed APIs using Flask for real-time ETA prediction and route optimization, containerized using Docker, and integrated with monitoring scripts
- Created Power BI dashboards for visualizing SLA adherence, courier performance, traffic delays, and resource allocation across regions

IFFCO Tokio General Insurance Company Ltd.

April 2024 – July 2024

Data Analyst Intern

Projects: Analyzing The Scope and Effectiveness of the Claims process in Health Insurance Policy

Key Tasks:

- Designed and developed an interactive Power BI dashboard to visualize claims data trends, fraud patterns, and processing metrics
- Performed end-to-end analysis of health insurance claims data using Python to extract insights, enhance fraud detection, improve efficiency, and ensure IRDAI regulatory compliance
- Proposed actionable recommendations to streamline claims handling and enhance customer experience
- Conducted cross-validation of analysis outcomes to ensure reliability and accuracy of insights

Technocolabs Software Pvt Ltd.

April 2024 – July 2024

Data Analyst Intern

Projects: Employee Attrition Analysis and Prediction, Predictive Modelling Analyzing on the Online P2P Lending Platform Using Social Profiles Between Lenders and Borrowers

Key Tasks:

- Data exploration and visualization build turnover charts, trends, highlight risks, analyze satisfaction
- Data preprocessing & feature engineering use metrics and dynamic, add time-based variables
- Machine learning models use supervised optimize with cross-validation, schedule retraining, and detect drift
- Predictive analytics in BI tools attrition risk from policy changes and HR to explore high-risk factors
- Machine Learning Pipeline System Predict borrower interest rates and repayment likelihood using appropriate classification and regression models

Academic Projects

Projects/Key Tasks:

Oct 2024 – Nov 2024

World Port Index: Project using Python

- Univariate and bivariate analysis of port attributes such as port type, size, and country
- Identification of anomalies or outliers that could impact downstream analyses or modeling efforts
- Developing classification models Decision Trees, Random Forest, Logistic Regression to predict port priority
- Performance metrics indicating the model's reliability and areas for improvement
- Generating comparative analyses through bar charts, scatter plots, and heatmaps
- Clear and engaging visual representations of the dataset, making complex data patterns easy to understand

News Analysis: Project using Python

Sep 2024- Oct 2024

- Keyword-Based Search Enter a keyword to fetch Reddit posts and comments related to it
- Sentiment Analysis Classifies comments as Positive or Negative based on sentiment
- Sentiment Intensity Analysis Categorizes sentiment intensity as Strong, Moderate, or Mild
- Visualization Provides various visualizations including sentiment distribution, intensity levels, and emotion frequency

Sales Analytics Dashboard: Project using Power BI

Aug 2024 – Sep 2024

- Monitoring key performance indicators (KPIs) such as revenue, profit margins, and sales growth
- Charts like bar graphs, line charts, and heatmaps to represent sales trends
- Identification of areas for performance improvement, such as underperforming regions or products
- Set parameters such as confidence intervals, seasonality, and future time periods for accurate forecasts
- Use metrics like Mean Absolute Error (MAE) or Root Mean Square Error (RMSE) to evaluate accuracy
- Provide actionable insights for decision-makers by identifying upcoming demand spikes or seasonal trends

Skills

Technical skills

- Programming Languages
- Data Visualization
- Machine Learning
- Cloud Computing
- Artificial intelligence
- Statistical Tools

Soft Skills

- Communication
- Teamwork
- Adaptability
- Analytical Thinking
- Curiosity
- Storytelling with Data

Certifications

Threat Intelligence and Hunting®

IBM

Google Cloud Computing

Google Cloud Skills Boost

Amazon Web Services

AWS Training Certification

Machine Learning & Artificial Intelligence

Coursera

Education

Adani Institute of Digital Technology Management

PGDM in Big Data Analytics, Gandhinagar, Gujarat

2023 - Present

Ranchi University

Under Graduation in Bachelor of Commerce, Account Hons.

July 2015 – Jun 2018

PVSS DAV Public School

High Schooling, Koderma

April 2001 – March 2015

Personal Details

Date of Birth

08th April 1996