

Amit Tiwari

Data Analyst

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SKILLS

- **Languages** : Python, SQL
- **Frameworks** : Scikit-learn, NumPy, Data Science, Tableau, MLOps, Machine Learning, Pandas, SciPy, Statsmodels, Matplotlib, Seaborn, Flask, Github, Streamlit, Docker & DockerHub, MLflow, AWS, Power BI, Apache Spark, TensorFlow, Computer Vision, Deep Learning, Transfer Learning, CNN, YOLO, Natural Language Processing (NLP), LSTM, Transformers
- **Data Analysis & Visualization** : Data Visualization, Data Analytics, Hypothesis Testing, Predictive Modelling, Regression, Classification, Clustering, Time Series Forecasting, Neural Networks, Text Processing, Language Modelling
- **Other Skills** : Communication Skills & Presentation, Problem-Solving & Critical Thinking, Teamwork and Collaboration, Google Colab, VS Code, CI CD Pipeline Setting

EXPERIENCE

Data Scientist

Nov 2017 - Present

Brigs Espro Services Pvt. Ltd.

Bharuch, Gujarat

Data Science Experience:

- Applied Data Science concepts to business for 2 years 5 months.
- Designed and developed a machine-learning-based app for sales predictions (96% accuracy) and inventory planning.

Profit & Loss Analytics Project:

- Worked on a Profit & Loss Analytics project.
- Successfully reduced sales and project costs by 30% and 20%, respectively.

Digital Solution Launch:

- Experience in understanding business cases and delivering outcomes aligned with business needs.
- Played a critical role in designing, developing, and launching a digital solution for the organization.
- Worked in an agile project management methodology.
- Coordinated with customer teams for effective front-end communication.

Managed Teams:

- Managed project and sales teams.
- Conceptualized, developed, and managed project models to deliver on a turnkey basis.
- Successfully performed challenging tasks with dedication and efficiency.
- Demonstrated good interpersonal skills. Committed to achieving results.

PROJECTS

LoanTap - Data Analytics & Customer Classification

https://github.com/Amit2balag/Scaler-Projects/blob/main/LoanTap_Logistic_Regression.ipynb

Underwriting Layer Development:

- Led the development of an underwriting layer for LonTap, determining creditworthiness for both MSMEs and individuals.
- Implemented a machine learning model with a remarkable accuracy of 97.5%, providing significant assistance to the organization.

Utilized Data Science Techniques:

- Applied Python, Visualization Tools, Pandas, and NumPy for data analysis.
- Employed Data Science and Machine Learning techniques, including KNN for Null Value Imputation and Classification Models for final predictions.

Business Impact Assessment:

- Conducted Exploratory Data Analysis, Data Cleaning, and wrangling for data preparation.
- Removed outliers, checked data distribution, and scaled numerical features for enhanced model accuracy.
- Executed feature engineering using High correlation filters to improve model performance.
- Demonstrated the business impact, enabling the company to prepare effective business plans and set strategies.

Machine Learning Model Deployment:

- Implemented Machine Learning models to simplify the decision-making process for LonTap.
- Managed the entire project matrix, overseeing Exploratory Data Analysis, Data Cleaning, wrangling, and outlier removal.
- Conducted data distribution checks and scaled numerical features for model optimization.
- Executed feature engineering with High correlation filters to enhance model accuracy.

Performance Evaluation:

- Trained models, comparing their performance to select the best among them.
- Tuned hyperparameters for optimal model performance.
- Evaluated the best-performing model using confusion matrix and ROC-AUC curve for comprehensive performance analysis.

Result-Oriented Approach:

- Implemented a result-oriented approach, ensuring the final predictions met the desired standards and accuracy.

Flight Price Prediction

https://github.com/Amit2balag/Internship-FlipRobo/blob/main/Flight_Price_Prediction_Regression.zip

Identified Business Need:

- Recognized the significance of flight price prediction for companies with extensive air travel needs and the necessity for better planning.

Conducted Exploratory Data Analysis (EDA):

- Analyzed flight fare data using essential EDA techniques to uncover patterns and insights.
- Developed a dashboard to interpret current data trends, empowering the company to make well-informed decisions.

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- Implemented a machine learning model to facilitate planning for passenger traffic, allowing for improved adjustment of fare prices. It led to almost around 25% of the sales cost savings.

Utilized Data Science Techniques:

- Utilized Python, Visualization Tools, Pandas, NumPy, Data Science, Machine Learning, and GitHub for the development of a flight price prediction model.
- Performed Exploratory Data Analytics, Predictive Modelling, and Data Pre-processing as part of the project matrix.
- Trained 30 models simultaneously and systematically compared their performance to identify the most effective one.
- Utilized metrics such as MAE, MSE, RMSE, and R2 Score for evaluation and ensured the selection of the most effective models.
- Tuned hyperparameters to optimize the performance.

Demonstrated Comprehensive Project Approach:

- Demonstrated a comprehensive approach from data analysis and model development to performance evaluation, providing valuable insights for enhancing pricing strategies in the airline industry.

ACHIEVEMENTS

Worked with clients from India's leading Manufacturing, Pharma, Banking & Health domain industries & helped them with solutions to achieve their business goals.

EDUCATION

Scaler

2023

Specialized in Data Science & Machine Learning

Coursework: Python, BigQuery, Tableau, Data Science, Machine Learning, Neural Networks, Computer Vision, Natural Language Processing (NLP).

VITS, Satna

2015

BE/B.Tech/BS | 7.10 CGPA