

SUDHANSHU NANDAN

DATA ANALYST | MACHINE LEARNING ENTHUSIAST | MLOPS PRACTITIONER

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CAREER OBJECTIVE

Data Analyst with expertise in Machine Learning, MLOps, and Deep Learning, including RNNs, LSTMs, and Transformers. Skilled in SQL, data visualization, and building end-to-end ML pipelines using tools like Docker, AWS, and GitHub Actions. Adept at turning complex data into actionable insights to drive strategic decision-making and operational efficiency.

TECHNICAL SKILLS

Languages	: Python, PySpark, MySQL
Tools	: Power BI, Tableau, Excel, Streamlit, Docker, GitHub Actions, AWS (S3, EC2, ECR), MongoDB, Kubernetes
ML/AI	: Linear Regression, Logistic Regression, Random Forest, XGBoost, SVM, ANN, CNN, RNN, LSTM, Transformers
Libraries	: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, TensorFlow
Concepts	: MLOps, Model Deployment, CI/CD, Data Ingestion, Data Validation, Feature Engineering, NLP, Hypothesis Testing
NLP	: Data Pre-processing using Tokenization, Stemming, Lemmatization & Stop words, TF-IDF, Word Embedding, Sentiment Analysis

WORK EXPERIENCE

Samatrix Consulting Pvt. Ltd (Gurugram, India)

Aug 2022 – Present

(Data Analyst)

- Improved the profitability of a nationwide retention program by 15% through SQL-based customer data analysis and optimization.
- Developed 10+ Power BI dashboards for stakeholders to enable real-time decision-making
- Applied machine learning techniques to detect and prevent fraud, utilizing both supervised and unsupervised methods.
- Conducted exploratory data analysis to provide insights on market trends, competitor strategies, and budget allocation

PROJECTS

Ground Water Potential Zone mapping In Jhansi Region (Machine Learning)

- Retrieved satellite data from USGS Earth Explorer and prepared thematic layers using ArcGIS 3.10 for groundwater potential zone prediction.
- Performed data cleaning, handled missing values, and applied feature scaling to ensure consistency and improve model performance.
- Extracted 15 relevant features from thematic layers and used them as inputs for groundwater potential zone prediction.
- Predicted 1273 groundwater potential zones using Random Forest, improving accuracy from 74.50% to 88.5% through hyperparameter tuning with GridSearchCV.

Vehicle Insurance Claim Prediction – MLOps Project

- Developed an end-to-end ML pipeline for predicting insurance claims with Recall: 1.0, F1 Score: 0.93, and Accuracy: 0.88.
- Deployed model using FastAPI on EC2 via Docker with CI/CD using GitHub Actions and ECR.
- Implemented data ingestion, validation, transformation, training, and model registry on AWS S3.
- Enabled real-time predictions with a Fast API and used MongoDB Atlas for data storage.

Credit Lending Risk Analysis

- Developed a credit risk prediction model on a high-dimensional dataset, performing feature selection using Chi-square and ANOVA tests.
- Implemented and optimized Random Forest, Decision Tree, and XGBoost classifiers, achieving 75% accuracy and 0.88 F1-score with XGBoost through Optuna hyperparameter tuning.
- Delivered a scalable and interpretable solution with robust preprocessing pipelines.
- Designed and integrated a Flask API frontend to enable user-friendly real-time prediction.

EdTech Recorded Lectures Dashboard(Power BI)

- Developed an interactive dashboard using Power Query and M language to analyze course distribution, viewer engagement, language trends, and instructor performance for strategic EdTech insights.
- Analyzed 1000+ courses across 10+ categories; identified top 5 categories and 3 high-rated instructors per sub-category for content optimization.

EDUCATION

Motilal Nehru National Institute of Technology, Allahabad

(8/2020 -7/2022)

Master of Technology

KIET Group of Institutions, Ghaziabad

(8/2014 -6/2018)

Bachelor of Technology

OTHER-ACTIVITIES

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| Successfully completed a research internship at Engineering Design and Research Private Limited, New Delhi | 2017 |
| Successfully completed a summer internship at Ducat Academy, Ghaziabad | 2016 |

CERTIFICATE

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| Google Data Analytics Professional Certificate issued by Coursera | 2022 |
| AWS Cloud Practitioner Essentials issued by Coursera | 2024 |
| AWS Cloud Solution Architect currently ongoing on Coursera | 2025 |

ACHIEVEMENTS

- Awarded 'Best Project' in M.Tech for Ground Water Potential Zone Mapping using Machine Learning
- Completed Google Data Analytics and AWS Cloud Practitioner certifications with distinction.
- Participated in Kaggle's "Bank Customer Churn Prediction" competition; built a Random Forest model achieving 85.6% accuracy and 0.78 F1 score using Python, Pandas, and scikit-learn