

NAMAN AGRAWAL

DATA ANALYST | MACHINE LEARNING ENTHUSIAST | MLOPS PRACTITIONER

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TECHNICAL SKILLS

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

WORK EXPERIENCE (Total: 5+ years)

Samatrix Consulting Pvt. Ltd. (Gurugram) : <i>Data Analyst & Team Lead</i>	Sep 2022 – Present
<ul style="list-style-type: none">Leading a 6-member team delivering data science tools and training to 800+ students, achieving 4.8/5 satisfaction scores.Deploy automated ML pipelines for detecting real-time fraudulent transactions, improving accuracy by 15%.Developed Recommender system that analyze student feedback comments and filled forms, reducing attrition rates by 20%.Hands-on Experience in data analysis, Statistical Modeling, and Predictive Modeling using Python (Numpy, Pandas), SQL, and Excel.	
MAT Holdings Inc. (Sonipat) : <i>Mechanical Engineer</i>	Feb 2021 – Sep 2022
<ul style="list-style-type: none">Automated data workflows by developing VBA scripts to transfer and categorize production data across Excel sheets, reducing 70% manual efforts and saving 10+ hours/day.Developing Pad Assembly and part drawings, Printing drawings on CAD as per customer data for PPAP approval as well as Production.Managing complaints and issues from the production line	
DB Engineering Pvt. Ltd. (Noida) : <i>Mechanical Design Engineer</i>	Aug 2020 – Jan 2021
<ul style="list-style-type: none">Develop the Turning CAD Drawing of parts e.g., Knives, Holders, Cutters, Blades etc.Make packaging part drawings from OEM for Pad e.g., Shim drawings, Wire Indicators, etc.Creating and managing Job Cards according to Production Unit and maintain up-to-date documentation of process.	
Preet Machines Ltd. (Ghaziabad) : <i>Asst. Design Engineer</i>	Jul 2019 – Aug 2020
<ul style="list-style-type: none">Develop the detail drawings of Rolling Mill equipments e.g., Roller Table, Pinch Roll, Chain Transfer etc. using AutoCAD.Create Erection drawings of General Arrangement as per Layout and Bill of Materials(BOM) for purchase.Collect and analyze the Layout and carry out calculations for the preparation of Drawings.	

PROJECTS

YouTube Comment Sentiment Analysis (Link)	<i>(python, transformers, streamlit)</i>
<ul style="list-style-type: none">89% accuracy achieved by Boosting pre-trained model through custom preprocessing Hinglish text.Designed text preprocessing pipeline that handle null values, emojis, URLs, code-mixing, and Indian English dialects.(0.91 F1-score) Validated on 500 manually labeled comments.Interactive dashboard deployed for processing 700+ comments/min, showcasing analysis and analytics using graph.	
Vehicle Insurance Claim Prediction – MLOps Project	<i>(python, mflow, fastapi)</i>
<ul style="list-style-type: none">Developed end-to-end ML pipeline for predicting insurance claims. (Recall: 1.0, F1 Score: 0.93, and Accuracy: 0.88)Model deployed using FastAPI on aws 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 Default Risk Analysis (Link)	<i>(python, catboost, streamlit)</i>
<ul style="list-style-type: none">0.88 F1-score achieved by developing ML model (CatBoost) on imbalanced dataset. (40k+ rows, 60+ features)Feature Engineering by filling nan values, VIF (>6), chi-square test, ANOVA and t-tests improving precision by 15% versus baseline.SMOTE Implementation for class balancing and hyperparameter tuning.Interactive front-end deployed for prediction for analyzing and categorizing risk into 4 buckets (1 to 4).	
Real-Time Payment Fraud Detection System (Link)	<i>(python, xgboost)</i>
<ul style="list-style-type: none">0.92 F1-score achieved using XGBoost on 6 million row dataset.)Solved severe class imbalance by using SMOTETomek and random undersampling hybrid techniques.Feature Engineering and created new features that improved precision by 18%.Automated Preprocessing and training Pipeline with (OneHotEncoder, StandardScaler etc.) via scikit-learn Pipeline.	

EDUCATION

Chandigarh University ; Master of Science (MS) - Data Science	(Aug/2024 - Jul/2026)
Kanpur Institute of Technology, Kanpur; Bachelors of Technology (B.Tech)	(Aug/2015 - Jul/2019)

ACHIEVEMENTS

- Secured Process Automation** | Developed VBA scripts to automate cross-Excel data transfer and categorization, reducing manual errors by 70% and saving 10+ hours/day
- Kaggle Competitions Contributor** | Participated in kaggle competition with code, dataset, and discussion contributions.
- Published educational blogs and Jupyter notebooks** on machine learning and deep learning topics (e.g., RNNs, Gradient Descent, Backpropagation), combining mathematical intuition and analogies. e.g., [RNN](#), [Optimizers](#), [BackPropagation](#), [Logistic Regression](#)