

# 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)

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

## PROJECTS

<b>YouTube Comment Sentiment Analysis (<a href="#">Link</a>)</b>	<i>(python, transformers, streamlit)</i>
<ul style="list-style-type: none"><li>89% accuracy achieved by Boosting pre-trained model through custom preprocessing Hinglish text.</li><li>Designed text preprocessing pipeline that handle null values, emojis, URLs, code-mixing, and Indian English dialects.</li><li>(0.91 F1-score) Validated on 500 manually labeled comments.</li><li>Interactive dashboard deployed for processing 700+ comments/min, showcasing analysis and analytics using graph.</li></ul>	
<b>Vehicle Insurance Claim Prediction – MLOps Project</b>	
<ul style="list-style-type: none"><li>Developed end-to-end ML pipeline for predicting insurance claims. (Recall: 1.0, F1 Score: 0.93, and Accuracy: 0.88)</li><li>Model deployed using FastAPI on aws EC2 via Docker with CI/CD using GitHub Actions and ECR.</li><li>Implemented data ingestion, validation, transformation, training, and model registry on AWS S3.</li><li>Enabled real-time predictions with a Fast API and used MongoDB Atlas for data storage.</li></ul>	
<b>Credit Default Risk Analysis (<a href="#">Link</a>)</b>	<i>(python, catboost, streamlit)</i>
<ul style="list-style-type: none"><li>0.88 F1-score achieved by developing ML model (CatBoost) on imbalanced dataset. (40k+ rows, 60+ features)</li><li>Feature Engineering by filling nan values, VIF (&gt;6), chi-square test, ANOVA and t-tests improving precision by 15% versus baseline.</li><li>SMOTE Implementation for class balancing and hyperparameter tuning.</li><li>Interactive front-end deployed for prediction for analyzing and categorizing risk into 4 buckets (1 to 4).</li></ul>	
<b>Real-Time Payment Fraud Detection System (<a href="#">Link</a>)</b>	<i>(python, xgboost)</i>
<ul style="list-style-type: none"><li>0.92 F1-score achieved using XGBoost on 6 million row dataset.)</li><li>Solved severe class imbalance by using SMOTETomek and random undersampling hybrid techniques.</li><li>Feature Engineering and created new features that improved precision by 18%.</li><li>Automated Preprocessing and training Pipeline with (OneHotEncoder, StandardScaler etc.) via scikit-learn Pipeline.</li></ul>	

## 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](#)