

# Manjit Singh

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## EDUCATION

Executive Post Graduate Programme in Data Science & AI	Oct '23 - Jan '25
IIIT Bangalore	Bengaluru, IN
Bachelor of Commerce - B. Com	Jul '20 - Jun '23
Gauhati University	Guwahati, Assam, IN

## TECHNICAL SKILLS

**Programming & Tools:** Python, SQL, Power BI, Tableau, MS Excel, GIT/GitHub, Jupyter Notebooks

**Frameworks & Libraries:** NumPy, Pandas, Scikit-Learn, Matplotlib, SciPy, NLTK, TensorFlow, PyTorch, Keras

**Database Systems:** MySQL, PostgreSQL, MongoDB

**Data Science Skills:** Machine Learning Algorithms, NLP, Deep Learning, Artificial Intelligence, Statistical Analysis, ML frameworks, Data Cleaning & Wrangling, Data Visualization

**Business Skills:** Market Research & Analysis, Business Acumen, Version Control, Reporting, Problem Solving, Business Intelligence

## PROJECTS

### Automatic Ticket Classification | Tech Stack: Python, NMF

- Developed models (**Logistic Regression**, **Random Forest**, **Naive Bayes**) using **Scikit-learn** to classify support tickets based on text data.
- Used **Non-Negative Matrix Factorization (NMF)** for topic extraction from unstructured text, improving model interpretability.
- Conducted hyperparameter tuning with **GridSearchCV** to improve performance, achieving **92.4% accuracy** and **0.99 ROC AUC** on validation data.

([GITHUB LINK](#))

### Customer Segmentation using Clustering Techniques | Tech Stack: Python

- Applied **K-Means** and **Hierarchical Clustering** using **Scikit-learn** to segment customers based on **RFM analysis** (recency, frequency, monetary value).
- Evaluated clustering quality with **silhouette analysis** and optimized the number of clusters using the **elbow method**.
- Achieved a **silhouette score of 0.48** and gained insights into customer behavior and identified potential strategies for targeted marketing.

([GITHUB LINK](#))

### Telecom Customer Churn Prediction | Tech Stack: Python, PCA

- Built **Logistic Regression** and **Random Forest** models to predict customer churn, addressing **class imbalance** using **SMOTE**.
- Reduced dimensionality with **PCA**, fine-tuned hyperparameters using **GridSearchCV**, and validated models with **StratifiedKFold cross-validation**.
- Achieved **83% accuracy** and **0.88 ROC AUC**, demonstrating the ability to build predictive models with actionable insights.

([GITHUB LINK](#))

### Vehicle EDA Analysis and Optimization | Tech Stack: Python

- Performed **Exploratory Data Analysis (EDA)** to analyze vehicle performance metrics such as fuel consumption, engine health and driver behavior.
- Engineered features** and conducted **correlation analysis** to identify patterns affecting efficiency and maintenance.
- Provided recommendations for **speed management** and **fuel optimization**, illustrating potential improvements in fleet management.

([GITHUB LINK](#))

## PROFESSIONAL EXPERIENCE

Business Analyst	Feb '24 - May '24
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Quest Global Technologies Ltd	Remote
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- Developed **automated dashboards** using **Power BI** and **SQL**, improving **operational efficiency by 10%** and enabling real-time KPI tracking for stakeholders
- Led **A/B testing** of marketing strategies using **Python**, achieving a **12% improvement** in conversion rates by optimizing campaign targeting
- Built **predictive models** to forecast customer behavior, collaborating with product teams to design personalized engagement strategies
- Created **custom KPI visualizations** and automated reporting pipelines, enhancing monitoring efficiency by **20%** through SQL-based automation

Business Analyst Intern	Nov '23 - Feb '24
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Quest Global Technologies Ltd	Remote
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- Discovered **5 new business opportunities** in the **GCC region** by performing market trend analysis using **Power BI** and **SQL** on public datasets
- Boosted **ROI by 15%** by generating **EDA-driven recommendations** and actionable insights, aligning strategies with business goals
- Applied **K-Means clustering** for segmentation analysis, improving **conversion rates by 15%** for targeted high-value customers
- Improved **data pipeline efficiency by 10%** by automating **data cleaning** workflows to enhance data quality