

# Manjit Singh

Data-Driven Professional | PG in Data Science

+91 69000 54576   itsmanjit20@gmail.com   Tezpur, Assam, IN   Portfolio   Github   LinkedIn

## SUMMARY

Results-driven **Data Science** professional with expertise in **data analysis**, **machine learning concepts**, and **data transformation**. Proficient in Python, SQL, Power BI, and Tableau with hands-on experience tackling **complex problems** and **unstructured data**. Adept at translating findings into **actionable business insights** and solving real-world **business issues** through **data interrogation**, advanced analytics, and **novel visualisations**.

## KEY SKILLS

- Data Science • Machine Learning • Statistical Modeling • Complex Data Handling • Data Transformation • Data Interrogation • Model Evaluation
- Utilising SQL Code for Data Extraction & Cleaning • Exploratory Data Analysis (EDA) • Feature Engineering • Common Data Quality Issues • Data Visualization
- Business Insight Generation • AI & Deep Learning Concepts

## TECHNICAL SKILLS

**Languages:** Python, SQL | **Tools:** PowerBI, Tableau, MS Excel | **Libraries:** Scikit-learn, TensorFlow, PyTorch, Keras, NLTK, Pandas, NumPy  
**Database:** MySQL, PostgreSQL | **Deployment:** Streamlit, Flask, Docker, Heroku | **Version Control:** Git, Jupyter, VS Code

## ANALYTICAL PROJECTS

Sentiment-Based Recommendation System | Tech Stack: Python (Flask, Scikit-learn, Pandas) | [Jan 2025]

- Designed a **hybrid recommendation engine** that combines **collaborative filtering** with **sentiment analysis** of user reviews to improve product suggestions.
- Utilized **text preprocessing**, **TF-IDF**, and **Logistic Regression** for sentiment modeling; integrated the output with a **user-item matrix** to refine recommendations.
- Developed a **Flask-based web application** for real-time interaction, enhancing user experience and recommendation relevance.

HelpMate AI: Generative Search System | Tech Stack: Python (LangChain, GROQ AI, SBERT, Chroma) | [Dec 2024]

- Built a **Retrieval-Augmented Generation pipeline** to answer insurance policy queries with **accurate and context-rich responses**.
- Employed **SBERT** for dense embeddings, **Chroma** as a vector store, and **GROQ AI LLM** for generating natural language outputs.
- Used **LangChain** to orchestrate the pipeline, ensuring **modular design**, **cost-efficiency**, and **scalability** across multiple document formats.

Automatic Ticket Classification | Tech Stack: Python (Pandas, Scikit-learn, NLTK, SpaCy) | [Oct 2024]

- Implemented an **NLP pipeline** to automate the classification of customer support tickets into relevant departments.
- Applied **NMF-based topic modeling**, **custom text cleaning**, and **feature engineering** (TF-IDF) to boost classification accuracy.
- Streamlined manual processes, reducing ticket resolution time and improving response efficiency with a **well-documented notebook workflow**.

## PROFESSIONAL EXPERIENCE

Business Analyst	Nov '23 - May '24
Quest Global Technologies Ltd	Remote
<ul style="list-style-type: none"><li>• Streamlined reporting workflows by <b>automating dashboards</b>, enabling <b>real-time tracking</b> of key performance indicators (KPIs) and boosting operational agility</li><li>• Executed <b>A/B testing</b> strategies to evaluate marketing effectiveness, resulting in increased <b>conversion rates</b> and improved <b>return on investment (ROI)</b></li><li>• Applied <b>data analysis</b> techniques, including segmentation and exploratory analysis, to uncover <b>growth opportunities</b> and enhance <b>customer targeting</b> strategies</li></ul>	

## INTERNSHIPS

Intern	Nov '24 - Present
Samhita	Remote
<ul style="list-style-type: none"><li>• <b>Managed</b> and <b>updated</b> financial platforms by processing disbursement and repayment data, ensuring <b>data accuracy</b> across multiple projects</li><li>• <b>Collaborated</b> with cross-functional teams for <b>participant onboarding</b>, project coordination, and delivery of <b>real-time data insights</b></li><li>• <b>Documented</b> project activities, meetings, and updates, maintaining a structured log for <b>MIS reporting</b> and <b>future analysis</b></li></ul>	

## EDUCATION

Executive Post Graduate Program in Data Science and Artificial Intelligence	Oct '23 - Jan '25
IIIT Bangalore	Bengaluru, IN
<ul style="list-style-type: none"><li>• Secured: 4.00/4.00</li></ul>	
Bachelor of Commerce - B. Com	Jul '20 - Jun '23
Gauhati University	Guwahati, Assam, IN
<ul style="list-style-type: none"><li>• Secured: 6.89/10.00</li></ul>	