

CHANCHAL SINGH

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Data Scientist with a strong foundation in business and relationship management, combined with hands-on experience in data analysis, predictive modeling, and machine learning. Leveraging more than 2 years of banking experience in client service and business development, I bring a unique perspective to solving business problems through data-driven decision-making. Proficient in Python, SQL, Power BI, and advanced predictive modeling techniques with a focus on fraud detection and customer analytics.

EXPERIENCE

FEB 2024-
AUG 2024



UNIFIED MENTOR PVT LTD

Data Analyst Intern- Hands on experience in data cleaning, analysis, and visualization. Proficient in using SQL, Excel, and Python for data manipulation and generating actionable insights to support business decisions.

OCT 2023-
DEC 23



PSYLIQ

Analyst Intern focused on leveraging data to uncover trends and insights. Assisted in building dashboards and reports using tools like Tableau and Power BI, and collaborated with cross-functional teams to support data-driven decision-making.

PROJECTS

• Fraud Detection using XGBoost

- Built a fraud detection model using XGBoost, achieving a 95% accuracy rate in identifying fraudulent transactions.
- Preprocessed and analyzed a large dataset of financial transactions, engineered features, and optimized the model using GridSearchCV.
- Used SHAP for model interpretability to identify key factors influencing fraud predictions.
- Visualized model performance using confusion matrix, ROC curve, and SHAP summary plots.

• Sentiment Analysis of Medicine Reviews using NLP

- Developed a Natural Language Processing (NLP) model to perform sentiment analysis on a dataset of medicine reviews.
- Utilized TF-IDF (Term Frequency-Inverse Document Frequency) to convert text data into numerical features.
- Built and trained a classification model using Logistic Regression to predict sentiment (positive or negative) based on review text.
- Achieved an accuracy of 90% in classifying the sentiment of medicine reviews.
- Preprocessed text data by cleaning, tokenizing, and removing stopwords to ensure quality features.
- Visualized the most important words influencing sentiment using word clouds and feature importance plots.

EDUCATION

JULY 2024



MBA , DR, A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY, MEERUT

Gained expertise in Python, machine learning, ETL processes, NLP, and other key skills relevant to data science roles, preparing for data-driven decision-making and analytics.

AUG 2020



B.TECH, LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR

Served as Designing Head of Aviatrix in the International Go-Kart Championship 2019, leading the design and development team. Participated in various extracurricular activities, enhancing leadership, teamwork, and communication skills.

SKILLS

- Programming Languages: Python, SQL
- Data Manipulation & Analysis: Pandas, NumPy, Excel
- Data Visualization tools: Power BI, Tableau, Matplotlib, Seaborn
- Machine Learning: XGBoost, Random Forest, Linear & Logistic Regression, KNN, Hyperparameter Tuning
- NLP: TF-IDF, Text-Preprocessing, Sentimental Analysis
- Databases: MySQL
- ETL Processes: Data extraction, cleaning and transformation using SQL & Python
- Model Explainability: SHAP, LIME

CERTIFICATES

- Introduction to Gen AI
- ChatGPT Prompt Engineering for Developers
- Complete Python Mastery
- Fundamentals of Machine Learning
- Data Analysis using AI
- Google Project Management
- Data Analysis using Pyspark
- Intro to Large Language Models(LLM)
- Prompt Engineering Basics
- AI and ML Learning on Google Cloud