Abhi Pratap Singh

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Dedicated and enthusiastic Bachelor of Technology (B.Tech) student in Computer Science (AI/ML). Proficient in Data Preprocessing, Machine Learning, Statistical Modeling, and Visualization using Python, SQL, Pandas, Scikit-learn, and TensorFlow. Passionate about applying AI/ML solutions to real-world problems. Eager to leverage technical expertise in dynamic environments.

SKILLS

Programming Languages: Python, MySQL
Libraries/Frameworks: NumPy, Pandas, Scikit-learn,XGBoost,TensorFlow,Keras,Matplotlib, Seaborn, Streamlit
Statistical Modeling: Hypothesis Testing, Linear Logistic Regression, Probability Theory, Statistical Inference
Machine Learning: Supervised Learning , Unsupervised Learning , Model Building, Model Evaluation, Cross-Validation, Hyperparameter Tuning
Deep Learning: Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks(RNN)
Data Analysis Skills: Data Cleaning, Exploratory Data Analysis (EDA), Feature Engineering, Handling Imbalanced Data,Web Scraping

EXPERIENCE

Data Science Intern   Jun 2024 — Jul 2024
Snapdeal (via Mentormind)   *Remote*
- Segmented 5 customer groups using K-means to improve marketing focus.
- Segmented customer groups and identified key behavioral patterns using K-means clustering and RFM analysis to enhance marketing strategies.
- Applied RFM (Recency, Frequency, Monetary) analysis for effective customer profiling.
- Used Python (Pandas, scikit-learn) to clean data and build models, cutting processing time by 30%

Data Analytics Intern   Jun 2024 — Aug 2024
IBM SkillsBuild (CSRBOX Foundation)   *Remote*
- Completed a 6-week program, applying data preprocessing, analysis, and visualization techniques to real-world datasets.
- Developed end-to-end data analysis workflows to identify key business insights and trends.
- Worked on tasks involving data cleaning, trend identification, and business insights generation.
- Utilized Python and visualization libraries to create and present actionable insights from large datasets.

PROJECTS

Movie Recommender System
- Built a movie recommender system using cosine similarity and content-based filtering in Python.
- Created an interactive frontend using Streamlit and deployed the app online.
- **Code:** github.com/Abhipratapsingh123/Ml_projects-Movie_Recommender

WhatsApp Chat Analyzer
- Created a tool to analyze WhatsApp group chats for message frequency, media sharing and user activity .
- Used Python with pandas, regex, and matplotlib for data parsing and visualization.
- Deployed the tool with Streamlit and published source on GitHub.
- **Code:** github.com/Abhipratapsingh123/ML-project-Whatsapp_chat_analysis

Face Recognition-Based Attendance System
- Built an automated attendance system using OpenCV and LBPH, tested with 20+ unique faces.
- Used Haar Cascade to detect faces in real-time with 90–95% accuracy under ideal lighting.
- Created a Flask interface to log attendance in under 2 seconds per detection.
- **Code & Documentation:** github.com/Abhipratapsingh123/Attendance_with_face_recognition

Spam Classifier
- This project is an Email/SMS Spam Classifier built using machine learning techniques(Naive Bayes).
- Leveraged Natural Language Processing (NLP) to preprocess and transform text data.
- Achieved 100% precision score using the Multinomial Naive Bayes model, ensuring no ham messages were misclassified as spam.
- Deployed the model as a Streamlit web application.
- **Code:** github.com/Abhipratapsingh123/Ml-project-Spam-classifier

EDUCATION

Bachelor of Technology in Computer Science (AI/ML) *Sushant University, Gurugram*   2022 – 2026
Activities: *Coding competitions, hackathons, and tech club participation*
CGPA: 8.71 / 10