

Raghabendra Kumar Shah

DATA ANALYST · DATA SCIENTIST

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Summary

Computer Science undergraduate with practical experience in data analytics and machine learning. Successfully processed large datasets (200,000+ records) and built machine learning models with strong accuracy (94%+) across multiple projects. Proficient in Python, SQL, and data visualization tools with applied experience in customer segmentation, recommendation systems, and sentiment analysis. Seeking an entry-level Data Analyst/Scientist role to apply technical skills in transforming data into valuable insights.

Projects

Customer Segmentation Analysis

Andhra Pradesh, India

QUANTIUM(VIRTUAL INTERNSHIP)

Mar. 2025 - Apr. 2025

- Cleaned and processed over 200,000 transaction records using Pandas, removing outliers and irrelevant data to ensure high-quality analysis for customer segmentation.
- Identified key customer segments driving 70% of chip sales, with Budget Older Families and Mainstream Young Singles/Couples emerging as top contributors.
- Analyzed purchasing behavior across 10+ brands and 5 pack sizes, uncovering a 30% higher preference for premium brands among Mainstream customers and validating insights with statistical tests like t-tests.

Sentiment Analysis

Andhra Pradesh, India

PERSONAL PROJECT

Feb. 2025 - Feb. 2025

- Developed a binary text classifier achieving over 94% accuracy on validation, effectively categorizing tweets into positive and negative sentiments using LSTM layers.
- Processed 14K+ data samples, transforming text into vector embeddings with a vocabulary size of 5K+ words for efficient sentiment analysis.
- Implemented key NLP preprocessing techniques including tokenization, padding sequences to a maxlen of 200, and applying dropout regularization to prevent overfitting during model training.

Movie Recommendation System

Andhra Pradesh India

PERSONAL PROJECT

Jan. 2025 - Jan. 2025

- Developed a content-based movie recommendation system achieving personalized suggestions by utilizing metadata such as cast, crew, keywords, and genres, processing over 48,000 movies.
- Engineered a feature extraction pipeline transforming textual metadata into vectorized representations, applying CountVectorizer with English stop words to generate a cosine similarity matrix for accurate recommendations.
- Implemented a recommendation function that outputs the top 10 similar movies based on user input, achieving efficient mapping of movie titles to indices and sorting similarity scores in descending order for precise results.

Fake News Detection

Andhra Pradesh, India

PERSONAL PROJECTS

Dec. 2024 - Jan. 2025

- Trained a Multinomial Naive Bayes classifier on 35K+ preprocessed news headlines (TF-IDF features), achieving 95% accuracy in detecting fake news.
- Processed and vectorized over 35,000 text samples using TF-IDF Vectorizer with 50,000 max features, converting raw text into meaningful numerical representations for machine learning.
- Implemented NLP preprocessing techniques, including lemmatization, stopword removal, and regex cleaning, to transform text data into a clean, analyzable format for training and evaluation.

Skills

- Programming:** Python (Pandas, NumPy, Scikit-Learn), SQL
- Data Analysis & Machine Learning:** Data preprocessing, feature engineering, statistical analysis, Model training, Evaluation
- Tools & Visualization:** Jupyter Notebook, VS Code, Excel, Matplotlib, Seaborn, Power BI, AI tools
- Databases:** SQL (PostgreSQL, MySQL)
- Soft Skills:** Communication skills, Attention to detail, Collaboration & Teamwork, Problem Solving, Analytical Thinking
- Version Control:** GitHub, Git

Education

BVCEC (Bonam Venkata Chalamayya Engineering College)

Odalarevu, Andhra Pradesh

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

Oct. 2022 - Apr. 2026