

Rahul Tomar

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EDUCATION

Dr Akhilesh Das Gupta Institute of Professional Studies , New Delhi B.Tech in Artificial Intelligence and Data Science	Aug 2022 - May 2025 GPA: 8.7
Guru Nanak Dev Institute of Technology , Rohini, Delhi Diploma in ECE	Aug 2019 - Jun 2022 GPA: 9

SKILLS

Functional :	Statistical Analysis, ETL, Data Pipeline, Data Modeling
Technical :	Python, SQL, Excel, PowerBI, Machine Learning, C, C++, Pyspark, Databricks, Numpy, Pandas, Scikit-Learn, HTML, CSS, Deep Learning

PROFESSIONAL EXPERIENCE

SB Packagings Pvt Ltd - Rohtak, Haryana Data Science Intern	Jul 2024 - Oct 2024
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- Led data analysis projects from inception to completion, ensuring timely delivery of insights to stakeholders.
- Participated in team meetings to discuss data analysis methodologies and share insights for collective decision-making.
- Analyzed and interpreted large datasets using Python and SQL to extract meaningful patterns for business decision-making.

IBM - Delhi Data Science Intern	Jul 2023 - Sep 2023
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- Developed and implemented a scalable data analysis framework, enhancing data processing efficiency by 30%, which accelerated insight generation and supported strategic decision-making.
- Designed and deployed advanced data visualization dashboards using tools such as Power BI, leading to more impactful presentations and improved stakeholder engagement in data-driven decisions.
- Collaborated in cross-functional virtual team meetings to provide progress updates, share analytical insights, and contribute to brainstorming sessions for innovative data analysis strategies and solutions.

Moksha Electronic Pvt Ltd - Madipur, Delhi Testing Engineer Intern	Aug 2021 - Nov 2021
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- Implemented a new testing protocol for Printed Circuit Boards (PCBs), leading to a 20% increase in testing efficiency and accuracy, reducing diagnostic errors and turnaround time.
- Actively participated in collaborative team meetings to discuss project milestones, address technical challenges, and propose effective solutions.
- Provided technical support and mentorship to team members, fostering a collaborative work environment and contributing to improved team productivity.

PROJECTS

AI Driven Brain Tumor Detection	-
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- Utilizes VGG16 deep learning model for precise image classification of brain tumors.
- Ensures high accuracy of over 90% in categorizing brain tumors from MRI scans.
- Provides a user-friendly web interface for seamless upload of MRI scans and instant classification results.

Air India Airline Reviews	-
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- Scraped and aggregated customer reviews from multiple online platforms using Python libraries such as BeautifulSoup and Requests, building a comprehensive text dataset.
- Applied Afinn-based sentiment analysis to assign sentiment scores and classify reviews into positive, negative, or neutral categories, achieving over 90% classification coverage.
- Correlated review ratings with sentiment scores using scatter plots and bar charts, revealing key insights into rating reliability and user sentiment.
- Applied sentiment analysis techniques to categorize and score sentiments in reviews.

Sentiment Analysis of News Popularity	-
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- Performed comprehensive data cleaning and feature engineering, including formatting datetime values, handling missing data, and creating new features such as title length, recency factor, and sentiment scores.
- Applied sentiment analysis techniques to extract emotional tone from article titles using tools like VADER, TextBlob, and custom lexicons.
- Analyzed correlations between features and popularity, visualizing trends and relationships for better understanding.

Blinkit Dashboard

- Designed and developed an interactive data dashboard to analyze sales and store performance for Blinkit, a quick-commerce grocery platform, using tools like Power BI.
- Enabled data-driven decisions around outlet performance, inventory distribution, and category expansion through visual insights and interactive filters.
- Analyzed ₹1.2M+ in total sales, identifying key performance indicators such as average rating (33K), sales per item (₹140.99), and total items sold (8,523).

Netflix MovieShow Recommendation

- Implemented similarity-based recommendations using TF-IDF vectorization and cosine similarity, enabling users to discover movies and TV shows based on genre relevance.
- Applied supervised learning techniques and feature engineering to enhance model performance and interpretability.
- Analyzed Netflix Titles dataset to derive actionable insights and build a personalized recommendation engine using machine learning and NLP techniques.

Healthcare Analysis

- Developed a comprehensive data science pipeline to analyze medical conditions and predict patient outcomes using historical healthcare data.
- Development and evaluation of predictive models for medical outcomes using machine learning algorithms.
- Focused analysis on specific medical conditions with performance metrics and visualizations.

House Price Prediction

- Built and deployed a predictive model to accurately forecast house prices using a comprehensive real estate dataset.
- Developed and evaluated machine learning models using Linear Regression, selecting the best-performing model based on key metrics like R^2 , Mean Squared Error (MSE), and Root Mean Squared Error (RMSE).
- Optimized model performance through feature engineering and hyperparameter tuning, enhancing the model's generalization ability.

Retail Sales Analysis

- The project utilizes Python scripts like clean.py and main.py to clean and analyze monthly sales data, aiming to identify key trends and patterns.
- The analysis conducted helps in understanding sales performance over time, highlighting seasonal patterns and potential areas for improvement or growth opportunities.
- Insights gained from the analysis help in recognizing sales trends, seasonal variations, and potential areas of improvement or concern within the retail sales data.

Dim Sales Dashboard

- The Sales Summary Dashboard presents crucial sales metrics such as Total Revenue, Profit, Quantity Sold, Orders, Customers, Revenue Breakdown, and Average Order Value.
- Insights reveal consistent revenue growth, with significant contributions from the Southeast region and top-performing sales employees.
- The dashboard offers a detailed analysis of sales performance over different years, territories, and product colors, aiding in strategic decision-making.

Whatsapp Chat Analyzer

- Sentiment Analysis feature classifies messages as Positive, Negative, or Neutral, enabling users to gauge the overall sentiment of the conversations.
- Most Active Users feature allows users to identify and track the individuals who engage the most within the chat group.
- Chat Statistics feature provides insights on total messages, words, media, and links, giving a comprehensive overview of chat activity.

ACHIEVEMENTS

- Published research paper titled "AI Driven Brain Tumor Detection" in International Journal of Scientific Research and Engineering Development, 2025
- Published Research Paper: Published research paper titled 'Sentiment Analysis of News Popularity' in International Journal of Progressive Research in Engineering Management and Science, 2024
- IBM SkillBuild Bootcamp: Successfully completed IBM SkillBuild Bootcamp in Data Science
- Master in Data Science: Achieved Master in Data Science with PowerBI- ConsoleFlare