

ARMAN TIWARI

B.Tech in Computer Science and Engineering (Data Science)

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Linkedin | **GitHub**

EDUCATION

Ramdeobaba College of Engineering and Management (RCOEM)

B.Tech CSE(DATA SCIENCE)

CGPA: 8.88

Nagpur, India

July 2023 - Present

Namo Rims Junior College

INTERMEDIATE/+2, HSC

Percentage: 68.17%

Pune, India

2022 - 2023

Spicer Higher Secondary School

Matriculation, ICSE

Percentage: 83.5%

Pune, India

2020 - 2021

SKILLS

Programming Languages: Python, JAVA, C Programming
Libraries/Frameworks: Flask, React JS, HTML, CSS, JS
Tools / Platforms: Git, Power BI
Databases: SQL

PROJECTS / OPEN-SOURCE

NewsLens AI-Powered Personalized News Aggregator & Bias Analyzer | [Link](#) *TypeScript.js, Flask*

- Built a full-stack intelligent platform that delivers real-time, user-specific news updates and analyzes news bias across sources.
 - Implemented sentiment analysis using Hugging Face Transformers, VADER, and TextBlob.
 - Developed a credibility scoring system for news using ML models trained on media bias datasets.
- Features: Real-time notifications, multi-source comparison, pop-up summaries, personalized domains.

SQL Saturday Madrid ML Challenge | [Link](#)

Python, SQL

- Participated in the SQL Saturday Madrid Machine Learning Competition hosted by PASS Espaa.
 - Task: Classify data points as "Benign" or "Malignant" using binary classification models.
 - Evaluation Metric: F1 Score, optimized using precision-recall tradeoffs.
- Techniques Used: Feature Engineering, Logistic Regression, Random Forest, SVM.
Submission Format: CSV with predictions.

Advancing Customer Segmentation: A Hybrid HDBSCAN-FCM Approach with Comprehensive Algorithmic Analysis | [Link](#)

Research Work (Under Submission)

- Developed a hybrid clustering framework integrating HDBSCAN and Fuzzy C-Means (FCM) with PCA-based dimensionality reduction to enhance customer segmentation.
- Conducted an extensive performance comparison across 14 clustering algorithms using evaluation metrics such as Silhouette Score, Davies-Bouldin Index, and Calinski-Harabasz Score.
- The proposed model demonstrated superior ability to identify nuanced and high-value customer segments, enabling more targeted and personalized marketing strategies.

CERTIFICATIONS

- Machine Learning with Python | IIT Kanpur
- Leadership Skills | IIM Ahmedabad
- Prompt Engineering| Vanderbilt University