

VANSHIKA RANA

Student | Aspiring AI & Data Engineer

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SUMMARY

Computer Science student with strong foundation in Data Structures, Algorithms, and Machine Learning. Passionate about applying data-driven problem solving and AI techniques to real-world challenges. Skilled in Python, SQL, and visualization tools with hands-on experience through academic projects. Eager to contribute to innovative teams and grow in the field of Artificial Intelligence.

TECHNICAL SKILLS

- Programming: Python, C++
- Data & ML: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn , Regression, Classification
- Databases & Tools : SQL , Github , Jupyter Notebook
- Concepts: Data Warehousing, Data Mining, ETL, OLAP
- Web & App Tools : HTML, CSS, Streamlit

PROJECTS

Crop Yield Prediction[https://github.com/vanshikarana06/Crop_yield_prediction]

- Built a regression model in Python to predict crop yield ($R^2 \approx 0.89$).
- Applied feature engineering and error evaluation (RMSE ≈ 285 tons/hectare).
- Visualized results with Matplotlib & Seaborn for insights.

Movie Recommendation System

[https://github.com/vanshikarana06/Movie_recommendation_sytem]

- Developed a content-based recommender using Cosine Similarity.
- Suggested top movies by analyzing genres, actors, and directors.
- Deployed an interactive Streamlit UI for user-friendly recommendations.

NavChronicles – News Application[https://github.com/vanshikarana06/NEWS_WEB_APP_]

- Built a Streamlit news app integrating the NewsAPI for real-time updates.
- Added topic-based search, previews, and direct links to full articles.
- Designed a responsive interface to improve user experience.

EDUCATION

- *B.TECH IN COMPUTER SCIENCE, GOVT. DEGREE COLLEGE , DHARAMSHALA, 2023 – PRESENT*
- *CLASS XII (HPBOSE), ABC SCHOOL, 2023 – 80%*
- *CLASS X (HPBOSE), GOVT. SCHOOL , SIHORBALA, 2021 – 89%*

ADDITIONAL INFORMATION

- **Languages:** English, Hindi .
- **Soft Skills:** Problem-solving, Communication, Teamwork, Adaptability