

## Yograj Tiwari

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### Professional Summary

Dedicated Data Science and AI enthusiast with expertise in machine learning, deep learning, and data-driven decision-making. Proficient in Python for building and deploying models. Experienced in data preprocessing, EDA, feature engineering, and developing real-time applications. Skilled in working with NLP, neural networks, and advanced AI techniques. Passionate about leveraging AI to solve complex problems and continuously expanding knowledge in emerging technologies..

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### Projects

#### Recommendation System [Link](#)

- Developed a recommendation system by merging movie metadata and credit data, creating a dataset of 5,000 movies.
- Preprocessed movie data by structuring text fields and handling missing values, improving data quality for model training •
- Extracted features using Vectorizerization with a vocabulary size of 5,000, enhancing the accuracy of similarity calculations.
- Calculated cosine similarity to provide accurate movie recommendations based on user-selected inputs.
- Deployed the recommendation model using pickle and Streamlit, enabling real-time predictions and user interaction for enhanced user experience.

#### Credit Risk Analysis [Link](#)

- Processed data to handle missing values and reduce outliers by 4% for better model performance.
- Applied Random Forest, XGBoost, and Decision Tree models, achieving 85% accuracy in predicting credit approval status.
- Validated models using 5-fold cross-validation, achieving a precision score of 0.82, recall of 0.80, and F1 score of 0.81.
- Deployed models using pickle and Streamlit for real-time predictions and user interaction.

#### Sentiment Analysis [Link](#)

- Preprocessed text data by removing stopwords and applying stemming, improving model accuracy to 90%.
  - Extracted features using Vectorizerization, converting text data into numerical format, facilitating model training.
  - Trained and tuned classification models, including Random Forest, XGBoost, and Decision Trees, with testing accuracies of 85%, 87%, and 83%.
  - Deployed models using pickle and Streamlit for real-time sentiment predictions.
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### Skills

- **Programming Languages:** Python, SQL
- **Frameworks and Tools:** Git, Github, tensorflow, pytorch
- **Database Management:** MySQL, PostgreSQL
- **Machine Learning:** Supervised Learning, Unsupervised Learning, NLP, Feature Engineering
- **Data Analytics:** Data Cleaning, Exploratory Data Analysis (EDA), Data Visualization, Report Automation
- **Deep learning-** CNN, ANN and gen-ai
- **Development Practices:** Agile, Version Control, Debugging, Unit Testing
- **Soft Skills:** Problem-solving, Team Collaboration, Effective Communication

### Volunteer Experience

#### Training and placement Department | 2023 - present

- Hold a volunteer position as a training and placement department, Identified and resolved logistical issues during events.
- Worked closely with staff and other volunteers to achieve organizational goals and ensure smooth operations.
- Interacted with community members to understand their needs and provided support.

### Education

#### Bachelor of Technology in Computer Science (Data-Science) 7.3 cgpa

Oriental Institute of Science and Technology | 2021 – 2025

Relevant Courses: Data Structures, oops, Machine Learning, Database Management, NLP, Data Analysis

### Certifications

- Python for Data Science, AI & Development, Coursera (IBM). [Link](#)

- **Tools for Data Science**, Coursera (IBM) . [Link](#)