Nishant Kumar

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PROFILE SUMMARY

Results-driven **B.Tech CSE** student with strong skills in **Machine Learning**, **Software Development**, and **DSA**. Proficient in **C, C++, Python**, with experience in **ML model deployment**, **data preprocessing**, and **algorithm optimization**. Developed a **movie recommendation system** (**TF-IDF, Cosine Similarity**), a **diabetes prediction model** (**Logistic Regression, Streamlit**), and a **Sudoku solver** (**C++, Backtracking**). Seeking an **internship in Software Development, Software Engineering, or Machine Learning** to apply technical expertise in **building efficient solutions**.

EDUCATION

Kalinga Institute of Industrial Technology, Bhubaneswar **2022 - 2026**
B.Tech - Computer Science and Engineering - ***CGPA - 7.82*** *Bhubaneswar, Odisha*

Sree Ayyappa Public School, Bokaro **2020 - 2022**
Class 12th (PCM) - ***Percentage - 75.1*** *Bokaro, Jharkhand*

Delhi Public School, Chas **2020**
Class 10th - ***Percentage - 85.4*** *Bokaro, Jharkhand*

PROJECTS

Twitter Sentiment Analysis | Machine Learning, Python, Streamlit, Tweepy, TextBlob **March 2025**

- Collected 10,000+ tweets using Tweepy and analyzed sentiments with TextBlob, achieving 87%+ classification accuracy.
- Developed a real-time dashboard in Streamlit, enabling users to fetch and analyze tweets within 2 seconds per request.
- Optimized preprocessing (stopword removal, lemmatization), improving sentiment analysis efficiency by 30%.

Movie Recommendation System | Python, NLTK, TF-IDF Vectorization, Cosine Similarity **Dec 2024**

- Developed a movie recommendation system in Python using Machine Learning, leveraging TF-IDF Vectorization and Cosine Similarity to rank movie similarities.
- Pre-processed the dataset by handling missing values and merging multiple features into unified text vectors for accurate comparisons.
- Implemented an optimized ranking mechanism, generating top 10 personalized movie suggestions with an 85%+ relevance score based on user input.

Sudoku Solver | C++, Backtracking Algorithm, IDE - VS Code **Nov 2023**

- Developed a Sudoku solver using the backtracking algorithm to efficiently solve puzzles.
- Implemented an optimized algorithm for real-time puzzle-solving capabilities.

KEY SKILLS

Languages: C/C++, Python, JAVA
Machine Learning: NumPy, Pandas, Scikit-learn, Matplotlib, Feature Engineering, Model Deployment
Web Development: HTML, CSS, Streamlit
Databases: SQL, MySQL
Concepts: DSA (Data Structures and Algorithms), OOP (Object-Oriented Programming)
Developer Tools: VS Code, PyCharm, IntelliJ, Git, GitHub
Soft Skills: Leadership, Time Management, Adaptability, Presentation Skills

CERTIFICATIONS

- Ultimate C++ Programming Course: From Novice to Expert - Udemy
- Complete Data Structures and Algorithms Course in Java - Udemy
- Python for Machine Learning with NumPy, Pandas, Matplotlib - Udemy

EXTRACURRICULAR

- Artist in Kraftovity Team from 2022 to 2024