




# Aman Kumar

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## Education

**Birla Institute of Technology Mesra, Ranchi**

Expected MAY 2027

*Bachelor of Technology in Computer Science and Engineering*

Current GPA: 7.64/10.0

**Senior Secondary (Class 12th)**

April 2023

*Kairali School Ranchi, CBSE*

Percentage : 84.2%

**Secondary (Class 10th)**

April 2021

*Kairali School Ranchi, CBSE*

Percentage : 94.4%

## Projects

**Fake News Detection — ML Pipeline for Text Classification** | *Python, Scikit-learn, NLP, TF-IDF, Streamlit*

- **Built an end-to-end machine learning pipeline** to classify news articles as real or fake using Natural Language Processing (NLP) techniques.
- **Performed robust data preprocessing and feature extraction** using TF-IDF vectorization, stopwords removal, and lemmatization to enhance model input.
- **Trained multiple models** (Logistic Regression, Naive Bayes) and optimized them for high precision and recall.
- **Achieved 95%+ accuracy** through fine-tuning, cross-validation, and effective use of evaluation metrics (RandomizedSearchCV).
- **Deployed the project via Streamlit:** Live Demo for interactive, real-time fake news classification.
- **Used open-source dataset from Kaggle:** Fake and Real News Dataset for model training and evaluation.
- **Packaged the solution in a modular, reproducible format** with a clean codebase and documentation for seamless collaboration and extension.

**TODOZ - TodoList Web Application** | *HTML, CSS, Javascript, React, Node.js, Tailwind*

- Developed a dynamic to-do list web application using React, enabling users to add, edit, and delete tasks with a responsive and user-friendly interface.
- Implemented state management with React hooks to handle real-time updates, ensuring seamless task tracking and smooth user interactions.
- Designed the application to be fully responsive, adapting to various devices and screen sizes for an optimized user experience.
- Optimized the app for performance with modular, reusable components, ensuring scalability and maintainability.

## Skills

**Languages:** C++, C, Java, JavaScript, Python

**Web Development:** HTML, CSS, Tailwind CSS

**Tech Stack:** PostgreSQL, Express.js, React, Node.js

## Relevant Coursework

- Operating Systems
- Database Management Systems
- Data Structures
- Object-Oriented Programming

## Achievements

[LINK]

- **NTSE Scholar** – Cleared Stage 1 (State Level) and Stage 2 (National Level) of the National Talent Search Examination, conducted by NCERT.
- Scored 96.5 percentile in **JEE Main** (2023), among top 5 percent of 1.1+ million candidates.Examination 2023.
- Secured 99.12 percentile with an All India Rank of 699 in **COMEDK UGET** 2023 ( Consortium of Medical, Engineering and Dental Colleges of Karnataka Undergraduate Entrance Test)
- Secured All India Rank of 610 in **PESSAT** 2023 (People's Education Society Scholastic Aptitude Test)
- **LeetCode** (Maximum Rating 1462).
- Achieved **Global Rank 7027** in **LeetCode Biweekly Contest 153**.
- **Complete Data Science, Machine Learning, DL, NLP Bootcamp** on Udemy [Certificate].
- **The Complete Full-Stack Web Development Bootcamp** on Udemy [Certificate].
- Secured an impressive **8+ SGPA** in the 1st semester of B.Tech. Program at **BIT Mesra Ranchi**.

## Position of Responsibility

**Event Management Member, Rotaract Club, BIT Mesra**

November 2023

- Organized **Among Us**; volunteered in **Aagman 2024** and **Bit Roadies** – managed planning, coordination, and execution.
- **Aagman 2025** – Led coordination for 1000+ attendees at BIT Mesra's cultural induction.