SANJAY KUMAR

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EDUCATION

Rungta College of Engineering & Technology   September 2023 – September 2027
Bachelor of Technology – Computer Science and Engineering (AIML)   Chhattisgarh, In

TECHNICAL SKILL

Languages:	Python, C/C++, JavaScript
Frameworks:	React.js, Node.js, Express.js, Flask
Databases:	MongoDB (basic), MySQL
Dev Tools & Platforms:	Git, GitHub, Visual Studio Code, Postman, NPM, Vite, Netlify, Vercel, Jupyter Notebook, Google Colab
Libraries & Tools:	pandas, NumPy, Matplotlib, scikit-learn, TensorFlow (basic), React Router, Axios, Bcrypt, JWT, Socket.io
Operating Systems:	Windows, Linux (basic)

PROJECT

Antibiotic Resistance Predictor - Link   Apr 2025 – Jul 2025
Enterprise-grade AI platform that predicts antibiotic resistance using genomic, molecular, and clinical data.
- Applied multi-modal AI using transformer models, GNNs, & ensemble ML to analyze real patient and microbial genomic data
- Integrated with CARD, NCBI, PubChem for real-time updates and knowledge graph analysis
- Applied reinforcement learning to optimize treatment decisions based on patient profiles
- Designed professional dashboards and automated clinical reports for decision support

Credit Card & Transaction Fraud Detection System - Link   Fab 2025 – Apr 2025
An intelligent fraud detection platform for secure, real-time transaction monitoring with explainable AI.
- Achieved 99.5% fraud detection accuracy using XGBoost with robust feature engineering
- Role-based access control, encrypted authentication, and automated email alerts with SSL encryption
- Real-time analytics dashboard with interactive pattern analysis, batch processing, and risk scoring
- System health monitoring and multi-layer session handling for production-ready security

Movie Recommender System - Link   Oct 2024 – Nov 2024
A personalized, real-time recommender trained on over 1.2M movies using advanced NLP techniques.
- Preprocessed and vectorized movie metadata (genres, overviews, keywords) using TF-IDF
- Applied KNN + cosine similarity for fast, intelligent top-100 recommendations
- Used NLTK for natural language feature extraction and Pickle for model caching
- Built a Streamlit-based UI with TMDB poster mapping for interactive use

CERTIFICATES / ACHIVEMENTS

GenAI-Powered Data Analytics – Job Simulation - Link   Tata · Forage · Jun 2025 · Credential ID: XfCfYn5obfrdGtZ6B
Skills: Generative AI · Data Visualization

MERN Full Stack Development – Intermediate Level - Link   Coding Spoon · May 2025
Completed hands-on training with a capstone project, demonstrating skills in **MongoDB, Express.js, React.js, and Node.js**.

HackerRank 5★ Badges: C, C++, Java, Python - **Link**
Certifications: Python (Basic), Java (Basic), SQL (Advanced)

Patent Filed: Portable AI-Powered Adaptive Wound Healing Device   **Application Number: 202521015462 · Filed Feb 2025**
Smart wearable using **microfluidics + bioactive hydrogel + AI** for real-time healing optimization.