Anurag Kumar

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EDUCATION

VIT Bhopal University   **Bhopal, India**
B.Tech in Computer Science and Engineering CGPA: 8.33/10   Sep 2022 – May 2026

Gurukul Vidyapeeth   **Hajipur, Bihar**
CBSE Class 12 – 84.8%   Mar 2021

St. John's Academy   **Hajipur, Bihar**
CBSE Class 10 – 89.6%   Mar 2019

PROJECTS

Smart Water Quality Monitoring System   **Jan 2025 – May 2025**
- Collaborated with a team to build a MATLAB GUI to preprocess 200+ spectrophotometer readings (cleaning, resizing, formatting) for ML input.
- Contributed to building a portable, low-cost prototype (₹1000 per unit) integrating spectrophotometry, machine learning, and IoT for scalable rural deployment
- Added quantitative spectrum comparison in the GUI to detect relational patterns across samples linked to contamination.
- Delivered ML-ready features to the MATLAB backend, enabling >80% accurate water contamination classification.

Goal-Based Healthcare Website   **February 2024 – May 2024**
- Engineered a machine learning model achieving 85% accuracy to predict disease likelihood based on user inputs, integrated into a web application.
- Collaborated with a team to design and deploy the application, resulting in enhanced user engagement through personalized healthcare goals.
- Optimized application performance by 20% through iterative testing and feedback.
- Utilized Flask for server-side scripting, achieving a 25% reduction in server response time.
- Presented findings to faculty and peers, improving the database structure and ensuring project sustainability through detailed documentation.

Digital Question Bank for College Students   **August 2023 – November 2023**
- Developed a web-based platform using HTML, CSS, and JavaScript to centralize 50+ previous exam resources.
- Implemented search functionality to improve question accessibility and browsing experience.
- Coordinated with faculty and seniors to curate a structured database of questions.
- Integrated a feedback system and applied user suggestions to enhance platform usability.
- Ensured platform met academic standards via regular peer and mentor reviews.

SKILLS

- **Programming Languages**: C/C++, Python, Java
- **Web Development**: HTML, CSS, JavaScript, Flask
- **Tools**: Git, Jupyter Notebook, VS Code
- **Machine Learning & Data**: Model Development, Data Analysis, SQL
- **Soft Skills**: Problem Solving, Adaptability, Teamwork

ADDITIONAL

- Languages: English (Fluent), Hindi (Native)
- Certifications: Cloud Computing (NPTEL), Bits and Bytes of Computer Networking (Coursera)
- Interests: Chess, Video Games, Travelling