AKASH SINGH

Japalpur,Madhya Pradesh

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EDUCATION

Vellore Institute Of Technology,Bhopal   **2022 – 2026**
*B.Tech - Computer Science and Engineering - **CGPA** - **8.61***   *Bhopal, Madhya Pradesh*

Army Public School No-2, jabalpur   **2020 - 2021**
*12th Class - **CGPA** - **8.97***   *Jabalpur, Madhya Pradesh*

COURSEWORK / SKILLS

- Data Structures and Algorithms
- Operating Systems
- OOP Concepts
- Computer Networks
- Cloud Computing
- DBMS

PROJECTS

E-commerce Website (V-shipper)l ⧉ | React, Tailwind CSS, Node, Express, MongoDB   **2024 - 2025**

- Developed a localized e-commerce platform to serve students in remote college areas, enabling easy access to essential goods and services. The platform connects students with nearby shops, ensuring fast and affordable deliveries.
- Optimized performance with lazy loading and React, improving page speed by 40 percent .
- Enhanced security and data consistency with authentication (99 percent secure) and Redux (90 percent data accuracy).
- Reduced search time by **50 percent** using advanced filtering for efficient product discovery.
- Built an admin dashboard, reducing product and order management efforts by 60 percent.

Diabetes Prediction System with ML ⧉ | Python,sci-kit-learn, Pandas, NumPy, Streamlit   **2022**

- Engineered a diabetes prediction system using machine learning to enable early detection, leveraging the UCI dataset with clinical features like glucose levels and BMI. Preprocessed data, performed feature engineering, and achieved 88 percent accuracy using a Random Forest classifier.
- Deployed the model as an interactive web app with Python, Streamlit, and sci-kit-learn, allowing real-time risk predictions for users.
- Elevated model performance (86 percent precision, 90 percent recall) and contributed end-to-end, from data preprocessing to deployment, showcasing expertise in Python and ML workflows.

Movie Voting Website (Ongoing) ⧉ | HTML, CSS, React, Node, Express, MongoDB   **2024**

- Highly efficient and intuitive **search box** ensuring fast and convenient movie discovery.
- Nominate up to 4-5 favorite movies with the option to easily remove nominations.
- Added **10-12 new features** like organize the user interface of the **Home Page**
- Developed a seamless trailer streaming feature that improved user retention by 25 percent, streamlining access to content without requiring screen changes, ultimately enhancing the overall viewing experience for many users.

TECHNICAL SKILLS

Languages: JAVA, JavaScript, SQL
Technologies/Frameworks: HTML5, CSS3, React, MongoDB, Javascript, NodeJS, Express(Learning), Angular(Beginner) Streamlit,scikit-learn, Pandas, NumPy,
Developer Tools: VS Code,Git/Github, Canva, Jupyter Notebook

CERTIFICATIONS

- NPTEL Cloud Computing
- Simplilearn-Introduction to MERN Stack
- GeekForGeeks- GFG160 Days of code

EXTRACURRICULAR

- Taught basic Java/DSA in offline Mode. 09-2024 – 12-2024
- NSS Member from 2023 to till now