

SUHAS SINGH

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Education

Bachelor of Technology, Computer Science
VIT Bhopal University

September 2022 – Present

12th Standard

Indian School Certificate (St. Thomas' Church School, Kolkata)

April 2021 – March 2022

10th Standard

Indian Certificate of Secondary Education (St. Thomas' Church School, Kolkata)

April 2019 – March 2020

Skills

- **Languages:** Java, Python, C++, HTML5, CSS3, JavaScript, SQL
- **Backend & Databases:** MongoDB, MySQL, Mongoose, RESTful APIs
- **Cloud:** Amazon Web Service
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Pickle, Flask, React
- **Frameworks:** Express.js, Bootstrap CSS, Tailwind CSS

Projects

ShopNest – MERN Full Stack E-Commerce Website ([link](#))

May 2025 – Present

- Developed a full-fledged, production-ready **e-commerce** platform using the **MERN stack**.
- Implemented **JWT-based authentication** with granular role-based access control. Achieved API response times of **~250–280ms** and improved page load speed by **30%**.
- Engineered shopping cart, product management, and order tracking modules using **Redux and Axios** for smooth user interactions **supporting 1,000+ concurrent users**.
- Automated deployment via **Docker and GitHub Actions CI/CD**, reducing manual effort by **40%**.
- Currently integrating **AI-powered support chatbot** and **predictive inventory system** to reduce stockouts by **25%** and enhance user engagement.

Heart Disease Prediction System ([link](#))

Jan 2025 – May 2025

- Built a responsive frontend using **HTML, CSS, and JavaScript**; integrated with **Flask backend** for real-time predictions.
- Designed a stacked ensemble ML model (**Random Forest + KNN**) with Hyperband tuning, **achieving 99.40% test accuracy**.
- Outperformed standard models like **SVM (93.60%)** and **Logistic Regression (86.40%)**.
- Delivered a modular ML pipeline with comprehensive evaluation metrics (**Precision: 1.00, Recall: 1.00, F1-score: 0.99**).

Fake News Detection System ([link](#))

Aug 2024 – October 2024

- Created a full-stack application for fake news detection using **Flask** and a custom **HTML/CSS/JS** interface.
- Implemented **Passive Aggressive Classifier** with **TF-IDF** preprocessing, achieving **94.63% accuracy**.
- Outperformed traditional models like **CNN (86.55%)** and **Naive Bayes (74%)**.
- Integrated **performance dashboards** and **evaluation visualizations** to validate model reliability.

Certifications & Achievements

- **Certificates:**
 - AWS Cloud Practitioner – AWS
 - Full Stack MERN Developer – SmartBridge
 - Generative AI with IBM WatsonX – IBM
 - The Bits and Bytes of Computer Networking – Google
 - NPTEL Cloud Computing (Elite + Silver Badge)
 - NPTEL Marketing Analysis (Elite Badge)
- **Achievements:**
 - 2nd Round Qualifier – Flipkart Grid 6.0
 - First Runner-Up – InnovateX Hackathon
 - Finalist – CodeStorm Coding Competition