SAGAR WAGH

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SUMMARY

Versatile and results-oriented Full-Stack Developer with a strong foundation in Data Structures and Algorithms (C++), and hands-on experience building scalable web applications using the MERN stack, Next.js, and WebSockets. Proficient in both frontend and backend development, with a keen eye for UI/UX design and performance optimization.
Actively expanding expertise in Machine Learning, with projects involving regression models using Scikit-learn, and deploying ML solutions with Flask.

SKILLS

- **Language:** C, C++, Python(Advance), Java, JavaScript, TypeScript, HTML, CSS
- **Framework/Libraries:** Nodejs, React.js, Express.js, NumPy, Pandas, Matplotlib, Seaborn
- **Database:** NoSQL(MongoDB), SQL(PostgreSQL)
- **Developer Tools:** Git, GitHub, WebSocket's, Socket.io, Jupyter Notebook, Docker

PROJECTS

AI-Powered Interview Companion – Full-Stack SaaS Platform

https://neuro-chat-git-main-ayaan-shaikhs-projects-c5391979.vercel.app/

- AI Interview Companion is a real-time voice-based AI that simulates mock interviews tailored to specific roles.
- It helps users practice behavioral and technical questions in a realistic setting.
- The AI gives honest, contextual feedback to improve confidence and communication. Built with Next.js, Supabase, Clerk, and Vapi SDK for smooth voice interaction.
- All sessions are tracked and stored, allowing users to revisit and reflect. A smart, scalable tool to level up interview prep from home.

Supervised Machine Learning Project | Linear, Ridge, and Lasso Regression | Flask (WSGI)

- Performed complete EDA and data preprocessing (handling missing values, feature engineering).
- Trained and compared Linear, Ridge, and Lasso Regression models to understand the impact of regularization.
- Deployed the trained model using Flask (WSGI) for backend integration, creating a functional web app for live predictions.
- Visualized feature relationships and model performance to communicate insights effectively.

UNSUPERVISED ANOMALY DETECTION SYSTEM FOR FINANCIAL TRANSACTIONS

- Built an unsupervised anomaly detection system for financial transactions using Python, scikit-learn, NumPy, pandas, and matplotlib.
- Implemented Isolation Forest, DBSCAN, and One-Class SVM, achieving 86% recall (ROC-AUC 0.83) with DBSCAN on highly imbalanced data.

- Engineered a reusable ML pipeline (scaling, anomaly scoring, evaluation) for application to other anomaly detection problems (cybersecurity, healthcare, IoT).
- Engineered preprocessing pipeline (StandardScaler, PCA) and deployed the best model via a Flask REST API for real-time anomaly scoring.
- Tech Stack: Python, scikit-learn, NumPy, pandas, matplotlib, seaborn, Flask

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CERTIFICATIONS

- **Infosys Springboard:**
  Python Foundation Certificate
- **Infosys Springboard:**
  Introduction to Data Science
- **NPTEL:**
  Soft Skills Development

EDUCATION

B-Tech in Computer Science and Engineering | WIT, Solapur University | 2023 - 2027
CGPA: 9.4

HSC 12th | Walchand College of Arts and Science, Solapur | 2023
Percentage: 78.6%

SSC 10th | Little Flower Convent High School, Solapur | 2021
Percentage: 88%

ACHIVEMENTS

- Solved 350+ DSA problems across platforms like LeetCode, Coding Ninjas, Code chef with a Top 5% global ranking
- Achieved a rating of 732 on codeforces and a rating of 1041 on codechef.
- Consistently improving problem-solving speed and accuracy in real-time competitive environments