Khushi Sikarwar

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Objective

Aspiring software developer with a solid foundation in Java and Python, driven by a passion for factory automation and semiconductor technology. Eager to apply my expertise in object-oriented programming and software development to deliver innovative solutions and drive impactful projects.

Education

Madhav Institute of Technology and Science, Gwalior   Aug 2022 – May 2026
B.Tech in Information Technology (Internet of Things)
SGPA (5 Semester): 9.42

Senior Secondary (Class 12)   **Percentage:** 67
Kendriya Vidyalaya No. 5, Gwalior

Secondary (Class 10)   **Percentage:** 64
Kendriya Vidyalaya No. 5, Gwalior

Relevant Coursework

- Data Structures and Algorithms
- Systems Programming
- Computer Architecture
- Java Programming
- Internet of Things
- Wireless Technology
- Cloud Computing
- Data Science

Projects

AI-Based Object Detection App for Blind Assistance Developed a mobile app using **Python, OpenCV, and TensorFlow** to detect objects in real-time via the camera feed. Integrated a voice assistant to provide **audio feedback**, assisting visually impaired users with navigation. Designed an intuitive and accessible interface to ensure a smooth user experience.

AI-Based System for Real-Time Yoga Pose Detection and Correction

- Used **Python and OpenPose** to detect and correct yoga poses in real time.
- Authored and presented a research paper on the project, which has been accepted by **IEEE International Students' Conference 2025**.

World Happiness Index Dashboard

- Built an interactive dashboard using **Python (Pandas, Matplotlib)** to visualize global happiness data.
- Employed data cleaning and visualization techniques to create a user-friendly experience.

Garbage Monitoring System for a City

- Designed a system to **track garbage collection trucks**, monitor **illegal dumping**, and ensure **timely visits to every house**.
- Implemented real-time tracking to provide accurate location and estimated arrival time of garbage trucks.
- Integrated a complaint system to report issues related to garbage collection and disposal.

Student Performance Prediction System for Future Growth

- Developed a machine learning model to predict **student performance** based on academic records and behavioral data.
- Implemented data preprocessing, feature engineering, and model training using **Python (Scikit-Learn, Pandas)**.
- Designed an interactive dashboard to visualize predictions and provide insights for **personalized learning paths**.

Technical Skills

Languages: Java, Python, HTML/CSS, JavaScript, SQL
Programming Concepts: Object-Oriented Programming (OOP), Data Structures, Algorithms
Developer Tools: VS Code, Google Cloud Platform, Jupyter Notebook
Technologies/Frameworks: OpenCV, TensorFlow (Beginner), Flask, Keras (Beginner)
Version Control: Git, GitHub

Experience

GeeksforGeeks MITS Student Chapter   **Nov 2023 – Nov 2024**
Management Team Member   *MITS, Gwalior*
- Coordinated technical workshops and events to promote programming skills among students.
- Facilitated discussions on programming concepts, including **object-oriented programming** and data structures.

Codewars Club   **Dec 2022 – Dec 2023**
Technical Team Member   *MITS, Gwalior*
- Participated in hackathons focusing on **Java**, improving problem-solving abilities.
- Collaborated on technical projects and coding competitions.

Training and Placement Cell   **2022 – 2024**
Ex-Training and Placement Coordinator   *MITS, Gwalior*
- Assisted in coordinating placement activities and organizing recruitment drives for students.
- Guided students in resume building, interview preparation, and career planning.

Rashtraay - Street Play Society   **2022 – 2023**
Ex-Member   *MITS, Gwalior*
- Performed impactful street plays addressing social issues to raise awareness among students and the local community.
- Collaborated with team members to write, direct, and execute performances on various socio-cultural topics.

Leadership & Extracurricular Activities

Class Representative   2022 – Present

IoT POSTER EXPO 2024: Visualizing Connectivity

1st Runner-Up in Algo Aura - A Coding Competition

Student Coordinator - AI/ML Workshop

Winner - Riddle Rush (Treasure Hunt)

Competitive Coding: Active participant on CodeChef, GeeksforGeeks, and HackerRank.