


Om Jalindar Barvekar

 jayaschool1981-rgb

 om-barvekar

 Portfolio

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Summary

Motivated and detail-oriented **AI & Software Engineer** skilled in developing intelligent automation systems and modern desktop applications. Experienced in **JavaFX, MySQL, and full-stack desktop development** with database integration and clean MVC architecture. Certified by **EDC-IIT Delhi** in AI Tools, Data Analytics, and Product Management. Passionate about combining AI, robotics, and software engineering to build scalable solutions.

Technical Skills

Programming Languages:	Python, Java, C, JavaScript
Application Development:	JavaFX, MySQL, JDBC, Maven, SceneBuilder
AI & ML:	OpenCV, TensorFlow, YOLO, Scikit-learn
Frameworks:	Flask, Node.js, React
Hardware & IoT:	Raspberry Pi, Jetson Nano, Arduino
Tools:	IntelliJ IDEA, VS Code, Git, Linux, AWS (Basic)
Soft Skills:	Problem Solving, Collaboration, Product Management

Projects

Vybe Ride — JavaFX Ride-Sharing App

[GitHub Link](#)

Java, JavaFX, MySQL, JDBC, Maven

Developed a full-featured desktop ride-sharing prototype with login/signup modules, MySQL connectivity, and FXML-based UI. Implemented MVC architecture, user validation, and smooth navigation between scenes.

AI-Based Autonomous Navigation System

[GitHub Link](#)

Python, OpenCV, TensorFlow, YOLO, Raspberry Pi

Built an AI-powered robot for real-time object detection and path planning using YOLOv5 and A* algorithm. Integrated live camera feeds and ultrasonic sensors for dynamic obstacle avoidance.

Real-Time Vehicular Accident Detection & Emergency Response System

[GitHub Link](#)

Python, ML, IoT Sensors, GSM/GPS

Designed an ML-driven accident detection model with GSM alerts and GPS tracking for emergency notifications.

Portfolio Website

[Live Demo](#)

React, HTML, CSS, JavaScript, Vercel

Created and deployed a responsive portfolio showcasing projects and technical skills in a clean layout.

Work Experience

Intern — Labmantics (AI/ML, Remote)

Jun 2025 – Present

Developed ML-based data pipelines and automation scripts for data processing and predictive modeling. Worked on data visualization and accuracy optimization.

Intern — Blackbug Solutions Pvt. Ltd., Pune

Mar 2023 – Jan 2024

Assisted in developing drone automation and IoT sensor networks. Collaborated with engineers on testing embedded modules and control systems integration.

Education

B.E. in Computer Engineering — PDEA College of Engineering, Manjari (Pune)

2022 – Present

GPA: 7.5 / 10.0

Class 12th (HSC) — 75%

2022

Class 10th (SSC) — 91.8%

2020

Achievements & Certifications

Certified by **EDC-IIT Delhi** in Artificial Intelligence Tools, Data Analytics, and Product Management.

Received a **Letter of Recommendation (EDC-IIT Delhi)** for excellence in AI-based research.

Completed “AI is the Future” and “Self-Made Millionaire Program”.

Recognized for leadership and teamwork in AI-driven automation projects.