

Purvesh Sanjay Mali

Bachelor of Engineering

Progressive Education Society's Modern College of Engineering, Pune 5

+91-9822628048

✉ purveshmali99@gmail.com

🐙 GitHub

🌐 LinkedIn

🌐 Portfolio

🔗 LeetCode

EDUCATION

- **Bachelor of Engineering in Artificial Intelligence and Data Science** 2024-27
Progressive Education Society's Modern College of Engineering, Shivajinagar, Pune 5 CGPA: 9.27
- **Diploma in Computer Engineering** 2021-24
Government Polytechnic, Jalgaon Percentage: 89.26
- **SSC 10th Boards** 2021
Late.G.N.C Madhyamic Vidyalay, Jalgaon Percentage: 95.80

PERSONAL PROJECTS

- **Arjuna-AI (ISRO)** August 2025
Nationwide Cloud-Based Air Quality Prediction Platform
 - **Engineered** a nationwide AI platform to predict and visualize real-time air quality, processing **9GB INSAT satellite data** with a Random Forest model to achieve **85%+** accuracy
 - **Architected** a robust, end-to-end MLOps pipeline using **Python** and **Flask** that automated data ingestion, preprocessing, and model serving, reducing manual intervention by **35%**.
 - **Deployed** the system on a cloud infrastructure using **Docker** for containerization and **Kubernetes** for orchestration, ensuring high availability and scalability to handle nationwide requests.
 - **Applied** SHAP-based model explainability (XAI) to provide transparent and interpretable prediction insights, enhancing model trust and diagnostic capabilities.
- **Power Choice** May 2025
Power Plants Emission Prediction System.
 - Trained a predictive model with **92%** accuracy to forecast power plant emissions, demonstrating a potential **22%** improvement in impact analysis.
 - It is a full-stack MERN application with a Flask back-end for the machine learning component.
 - Designed a comprehensive React dashboard to display real-time data and actionable environmental insights.
 - Technology Used: ML, ReactJS, MongoDB, Flask, NodeJS
- **RideEase** September 2025
Uber Like Ride Booking Application.
 - Developed a MERN stack-based ride-hailing application with real-time ride booking and tracking functionality.
 - Integrated the HTML5 Geolocation API and implemented a route optimization algorithm to find the most cost-effective routes for users.
 - Implemented a machine learning-based recommendation engine for drivers.
 - Technology Used: ReactJS, NodeJS, ML, Microservices

EXPERIENCE

- **UI/UX Designer Internship** Oct 2024 - Mar 2025
Simplesphere Marketing Remote
 - Created a complete 12+ screen mobile application prototype in Figma for 'BiteUp', a food delivery startup.
 - Crafted an intuitive user experience, including home, cart, payment, and filter screens, incorporating animations to enhance usability.
 - Managed the end-to-end design process for a client project, from concept wireframes to high-fidelity mockups.
- **Full-Stack Web Developer Training(Python)** June - July 2023
Sumago Infotech Pvt.Ltd. On-Site
 - Executed a full-stack ToDo application using Python and Django, demonstrating core web development principles.
 - Constructed the back-end to manage task data, handling all Create, Read, Update, and Delete (CRUD) operations.
 - Built a responsive front-end interface with HTML, CSS, and JavaScript to interact with the Django back-end.
 - Applied RESTful API principles to manage task data effectively.

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, SQL, PHP
Frameworks Libraries: React.js, Next.js, Node.js, Express.js, Flask, Django, Redux, Tailwind CSS
Cloud DevOps: AWS (EC2, S3, RDS), Docker, Kubernetes, GitHub Actions (CI/CD), NGINX
Databases: MySQL, PostgreSQL, MongoDB, Firebase, Supabase, SQLite
Developer Tools: Git, GitHub, Postman, VS Code, Linux/Unix Command Line
Core Concepts: Data Structures Algorithms, OOP, OS, DBMS, System Design, Computer Networks
Interests: Full-Stack Development, Machine Learning, UI/UX Design, Cloud Architecture

EXTRA CURRICULAR & CERTIFICATIONS

- Cyber Job Simulation**Deloitte TechnologyJune-2025
 - Detected the source of a data breach and answer questions to identify suspicious user activity.
- Generative AI Professional Certification**OracleSept 2025 - Ongoing
 - Developing skills in generative AI fundamentals, large language models (LLMs), prompt engineering, and utilizing Oracle’s GenAI services.

ACHIEVEMENTS

- Hackathon Finalist (Top 3%)**: Ranked **6th** out of 236+ teams at a 36-hour VIT Pune hackathon, earning a direct internship interview opportunity.
- SIH 2025 Finalist (Top 17%)**: Secured **25th position** among 150 teams in the internal selection round for the Smart India Hackathon (SIH) 2025.
- Hackathon Winner (1st Place)**: Won a 7-hour hackathon at Dr. D. Y. Patil Inst. of Technology by demonstrating rapid, effective problem-solving under pressure.