DIPRAJ RANE

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PROFILE

Aspiring technologist specializing in Artificial Intelligence, Machine Learning, and Data Science, eager to apply analytical skills and programming expertise to build intelligent, data- driven solutions. Seeking a challenging role where I can contribute to innovative projects, solve complex problems, and continue growing as a versatile AI/ML/Data professional.

EDUCATION

Diploma - Information Technology, *Sawarde Polytechnic Ratnagiri* — 2020 – 2022, Ratnagiri

B.E - Artificial Intelligence & Machine Learning, *Savitribai Phule Pune University (SPPU)* — 2022 – 2025, Pune

TECHNICAL STACK

Python packages and Frameworks
NumPy, Pandas, Matplotlib, Seaborn, Tkinter

Mathematics for ML & DL
Statistics.

Databases
MySQL

Computer Vision
OpenCV, YOLO

Core Concepts
Supervised & Unsupervised Learning, Classification, Object Detection, EDA, Data Cleaning, Model Evaluation

Programming languages
Python, SQL, HTML, CSS, Git

Tools
Excel, Power BI

Web Tech
React.js, Node.js, MongoDB

LANGUAGES

English | **Marathi** - | **Hindi**

PROJECTS

Real-Time Object Detection for Surveillance, *Tools: YOLO, OpenCV, Python*
- Developed a computer vision pipeline to detect objects across multiple live video streams.
- Achieved real-time performance (30 FPS) with over 95% accuracy across various environments.
- Enhanced monitoring capabilities for multi- camera security setups.

Iris Flower Classification, *Tools: Scikit-learn, Pandas, Matplotlib*
- Built and compared multiple ML models (SVM, Logistic Regression, Decision Tree) for multi-class classification.

Reached 96% accuracy on the Iris dataset using proper feature selection and evaluation techniques.
- Demonstrated understanding of model performance metrics and validation.

Scalable Virtual Classroom Platform, *Tools: React.js, Node.js, MongoDB, WebRTC*
- Built a full-stack e-learning application for video collaboration, whiteboarding, and task sharing.
- Supported over 500 concurrent users with 99.9% uptime using a modular architecture.
- Designed for remote education environments with real-time communication capabilities.

Personal Portfolio website, *tools : HTML,CSS,Javascript*

- Designed and implemented a clean, responsive front-end layout using **HTML5, CSS3, and JavaScript** to showcase personal profile, projects, and resume.
- Added interactive features with **JavaScript** for enhanced user experience, including smooth navigation, animations, and responsive behavior.
- Applied **custom CSS styling** to ensure consistent visual design and mobile-friendly responsiveness.

CERTIFICATES

Python Development Internship
Sumago Infotech Pvt. Ltd. (202)

Machine Learning with Python
Verzeo Pvt. Ltd. (2023)

AI tools workshop
be 10x (july 2025)

SOFT SKILLS

- Leadership
- Analytical Thinking
- Time Management
- Problem-Solving
- Communication Skills