

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

B.E – Artificial Intelligence & Machine Learning, Savitribai Phule Pune University (SPPU)
2021 – Present | Pune

Diploma – Information Technology,
Sawarde Polytechnic Ratnagiri
2018 – 2020 | Ratnagiri

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.

TECHNICAL STACK

Python packages and Frameworks

NumPy, Pandas, Matplotlib, Seaborn, Tkinter

Core Concepts

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

Mathematics for ML & DL

Statistics.

Programming languages

Python, SQL, HTML, CSS, Git

Databases

MySQL

Tools

Excel, Power BI

Computer Vision

OpenCV, YOLO

Web Tech

React.js, Node.js, MongoDB

SOFT SKILLS

Leadership

Problem-Solving

Analytical Thinking

Communication Skills

Time Management

CERTIFICATES

Python Development Internship

Sumago Infotech Pvt. Ltd. (2024)

Machine Learning with Python

Verzeo Pvt. Ltd. (2023)

LANGUAGES

English • Marathi • Hindi