# Sourav Pramod

AI/ML Engineer | Computer Vision | Data Science | Deep Learning
souravpramod2003@gmail.com ◇ 9778329348 ◇ https://github.com/Souravpramod ◇
https://www.linkedin.com/in/sourav-pramod-068aa3286/ ◇ Palakkad, Kerala – 678004, INDIA

## Profile

AI/ML engineer-in-training with hands-on experience in computer vision, deep learning, and scalable data solutions. Experienced in object detection using YOLO series, ONNX model conversion, and building interpretable ML pipelines. Proven ability to deliver real-world solutions for safety, sustainability, and automation challenges.

## Professional Experience

**Ignitarium** Kochi, India
Software Intern – AI/ML Jan 2025 - Jun 2025

- Developed YOLO models (v5n, v5m, v8n, v8s, YOLOv5-tiny) for robotic pick-and-place and safety systems
- Optimized models and converted to ONNX for deployment in real-time industrial settings
- Built MobileNetV2 classifiers for PPE detection (helmets, gloves, goggles)

## Projects

**Web application for Mapping and depth classification of Water bodies** Final year project
Tools: YOLOv8, Logistic Regression, Streamlit, OpenCV, Scikit-learn, Google Earth Engine Oct 2024 - Apr 2025

- Built a web-based system for detecting, segmenting, and analyzing water bodies from satellite imagery using deep learning and classical ML techniques
- Integrated YOLOv8 for polygon-based water segmentation and logistic regression for RGB-based water depth classification; enabled historical trend analysis via Google Earth Engine
- Delivered a real-time, interpretable platform for environmental monitoring, supporting climate research, water resource planning, and seasonal analysis with interactive visual insights

**Smart Water Management System** Academic Project
Tools: HTML, CSS, JavaScript, PHP, MySQL Sep 2022 - Nov 2022

- Designed a full-stack water management system with real-time data tracking and visualization
- Integrated front-end UI with a backend database for efficient water usage monitoring
- Enabled sustainable resource usage with accurate, real-time insights, enhancing operational efficiency

**Football Predictions Using Models** Academic Project
Tools: Python, Scikit-learn, KNN Jun 2023 - Jul 2023

- Built classification models to predict sports outcomes, focusing on football datasets
- Applied preprocessing, feature selection, and KNN optimization for accurate predictions
- Achieved reliable model performance with 96% accuracy, supporting analytics-driven sports insights

## Education

**Amrita Vishwa Vidyapeetham** Ettimadai, India
B.Tech in Computer Science | CGPA: 6.04 Sept 2021 - May 2025

**Kendriya Vidyalaya, Kanjikode** India
Class 12 (Grade: 91.6%) 2021

**Kendriya Vidyalaya, Kanjikode** India
Class 10 (GPA: 91%) 2019

## Technical Skills

- Python
- TensorFlow & OpenCV
- YOLO Series & ONNX
- JavaScript & PHP
- Machine Learning (Scikit-learn, Pandas, NumPy)
- Data Visualization (Matplotlib, Seaborn)
- Tools (Linux, MySQL, Git, Streamlit) 3
- Google Earth Engine 3

## Languages

- English
- Hindi
- Malayalam

## Certifications

- Python for Data Science - Codecademy (Completed)

## Achievements

- Finalist – Short-film Acting Competition (Recognized for performance)
- Semi-finalist – Krishna Drama (Directed and acted in drama at Gokulashtami Festival)