

# Omkar Vishwajit Kadam

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## Summary

Data Science enthusiast with internship experience in Machine Learning, Data Visualization, Data Analytics, and Predictive Modeling. Proficient in Python, Power BI, Tableau, SQL, and Deep Learning with a strong foundation in computer engineering principles and hands-on project experience in satellite imagery analysis, real-time data pipelines, and YOLO-based object detection.

## Experience

**Research Intern**, NCAIR IIT Bombay Present

- Work on developing and fine-tuning machine learning models for predictive and classification tasks.
- Perform exploratory data analysis to uncover patterns, trends, and relationships within complex datasets.
- Build data visualizations and interactive dashboards to present insights in a clear and accessible way.
- Design and test AI-based algorithms to support ongoing research initiatives and problem solving.
- Automate data preprocessing workflows and feature engineering steps to improve model efficiency.

**AI & Data Analytics Intern**, Edunet Foundation (AICTE) April 2025 – May 2025

- Developed a forest fire detection system using pre-trained deep learning models such as ResNet50, achieving 89% accuracy.
- Large-scale image data sets collected, pre-processed, and cleaned to improve model reliability and performance.
- Designed and implemented data pipelines for efficient training and evaluation of fire detection models.
- Using visualization tools including Power BI and Tableau to analyze results and present insights effectively.
- Applied AI and data analytics techniques to improve early detection capabilities for real-world fire risk monitoring.

**Junior Data Scientist**, Yuva Intern (NSDC) June 2025 – July 2025

- Performing exploratory data analysis (EDA) on food processing datasets to identify trends and insights.
- Cleaned and preprocessed data by handling missing values, outliers, and applying normalization/scaling.
- Engineered features to boost predictive power and improve model accuracy.
- Built and evaluated machine learning models with suitable algorithms and metrics.
- Optimized models using hyperparameter tuning and cross-validation for robustness.
- Documented workflows and presented results to improve communication and reporting.

## Achievements

**Smart India Hackathon 2024 Winner** Dec 2024

Droplet – Water Conservation and Usage Optimization Platform

- Built a web tool to estimate and manage personal and agricultural water usage.
- Enabled users to calculate their water footprint using input-based estimations.

## Technologies

**Languages:** C, Python, SQL, HTML, CSS, JavaScript

**Technologies:** Pandas, Matplotlib, Numpy, Scikit-learn, YOLO, Power BI, Tableau, Flask, FastAPI, Streamlit

## Projects

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### Crater Detection System

AstroPit is an AI-driven crater detection system that uses deep learning and advanced computer vision to automatically identify impact craters in planetary images, providing researchers with a powerful tool to explore and analyze extraterrestrial landscapes.

### Gesture Controlled 3D Drone Simulation

NeoPilot is a gesture-controlled virtual drone simulator that uses a webcam to translate hand movements into real-time 3D flight commands, offering an immersive showcase of modern AI and web technologies.

### Dynamic File Converter and Analyzer

Datashift is an automated data pipeline platform that uses Python, Pandas, and Apache Spark to orchestrate end-to-end ETL workflows on diverse datasets, providing data teams with a robust framework for streamlined data integration and analysis.

## Certification

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### Data Analytics Job Simulation

June 2025

Deloitte Australia - Forage

### Run AI Models with IBM Watson Studio

March 2025

IBM Skillsbuild

### Microsoft Copilot for Productivity by Microsoft and LinkedIn

Sept 2024

Microsoft and LinkedIn

## Education

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### Shivajirao S. Jondhale College of Engineering

Dec 2022 – May 2026

Bachelor of Engineering in Computer Engineering

### Mithibai College

Aug 2020 – Mar 2022

HSC Science

### Madhavrao Bhagwat High School

Jun 2010 – Mar 2020

SSC