

# Swapnil J. Yadav

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I enjoy building innovative and impactful solutions-whether it's websites, applications, or anything in between.

## Education

### Vivekanand Education Society's Institute of Technology (University of Mumbai)

Mumbai, India

Master of Technology in Information Technology

sept 2024 – July 2026

- CGPI: 8.2/10 (Till 1<sup>st</sup> year)
- Relevant Coursework: Big Data, Gen AI, NLP, Machine Learning, Cloud Computing, and HPC

### K.C. College of Engineering and Management (University of Mumbai)

Mumbai, India

Bachelor of Engineering in Information Technology

July 2020 - July 2024

- CGPI: 8.43/10
- Relevant Coursework: Advance Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Distributed Systems, Operating Systems, Cloud Computing, System Design, Computer Networks.
- Achievement: 1st Prize in Volleyball (2024), and Active Member of the DLLE Club in (2022-2023).

## Skills & Interests

**Programming Languages:** Python, Java, c#, JavaScript, MySQL, HTML3, CSS, React.js, Next.js

**Frameworks & Libraries:** TensorFlow, PyTorch, OpenCV, Scikit-learn, NumPy, Pandas, Hadoop, YOLO, OCR, Unity Engine, Jupyter Notebook, Power BI

**Cloud & DevOps:** AWS (S3, EC2, Lambda), GCP, Kubernetes, Docker, Jenkins, Git bash, Agile, Scrum, Jira

## Work Experience

### AWS Intern ( AI & ML)

Virtual (Oct 2021 – Dec 2021)

- Developed and deployed a machine learning project using **AWS** services, including **S3** for data storage, **EC2** for running computational tasks, and **Lambda** for scalable model inference. This experience involved managing the end-to-end process of building and launching the project on the AWS cloud.
- Optimized model inference time by 15% through efficient use of **AWS Lambda and EC2 services**

### Data Analyst

Mumbai, India

Santosatech PVT Company

Hybrid (June 2025 – July 2025)

- Created interactive Power BI dashboards showcasing company revenue trends and employee flow metrics.
- Delivered actionable visualizations that helped the management enhance planning and operational performance.

### JRF (Junior Research Fellowship)

Mumbai, India

Vivekanand Education Society's Institute of Technology (VESIT)

On-site (Aug 2025 – Present)

- Mentoring and guiding final-year students during lab sessions, enhancing their practical understanding of core IT.
- Exploring innovative approaches and methodologies to support cutting-edge academic outcomes.

## Selected Projects

### Vehicle Number Plate Detection

June - July 2022

- Developed a **machine learning** system in **Python** to recognize vehicle number plates for traffic police, leveraging **OCR** and **YOLO** libraries for image capture and processing.
- Improved text recognition accuracy to **90%** by optimizing OCR processes.

### VR Horror Game

May - Dec 2023

- Designed and developed a single-player **VR** horror game as a major project for my engineering degree. Leveraged **C#** to ensure optimal performance of game assets and components. **enhancing user experience**.
- Received **positive feedback** from over **30 users** for immersive gameplay and intuitive mechanics, significantly.

## Technical Achievements

- Certified in [Python Basics for Data Science](#) , [AI for Everyone: Master the Basics](#) (IBM, EDX) And [Supervised Machine Learning: Regression and Classification](#) (DeepLearning.AI, Coursera)
- [Second prize Winner](#) in Projection 2.0 National Level Project Competition 2024, Atharva College of Engineering, Mumbai. (VR Horror Game)