Prathamesh Sonawane

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SKILLS

Languages: Python, C++, Javascript, Typescript, HTML, CSS, SQL
Frameworks: Django, React.js, Tailwind CSS, Bootstrap, Node.js
Platforms: Jupyter Notebook, AWS

EDUCATION

Master of Science in Computer Science
University of Utah — Expected Graduation: May 2026
Bachelor of Engineering in Information Technology
University of Mumbai, **CGPA: 3.34/4.0** — (Aug 2020 – Jul 2024)

EXPERIENCE

Full-Stack Development Intern, CodeClause — (May 2024)

- Designed and implemented a **task management application** using Django, featuring comprehensive **CRUD** operations, leading to a **30% increase** in efficiency.
- Built a **responsive calculator** application using **React.js**, resulting in a **25% improvement** in interaction speed.

Machine Learning Intern, Corizo — (Mar 2024)

- Developed proficiency in Machine Learning, including algorithms, NLP, predictive modeling, and data analysis.
- Executed a project focused on **generating concise summaries** of lengthy texts with a **90% accuracy** rate.

Web Development Intern, MSME & AICTE — (Nov 2023)

- Developed a full-stack **E-commerce website** using **Django** for back-end and **React.js** for front-end.
- Built dynamic, user-friendly web pages with **HTML**, **CSS**, and **JavaScript**, focusing on responsive design.

PUBLICATIONS

"Live Object Recognition using YOLO"

- Engineered and deployed a real-time computer vision system utilizing a **deep learning model** for object recognition and dimensional analysis with an accuracy of **98.41%**.

"AgroSegNet: Semantic Segmentation Guided Crop Image Extraction using Enhanced Mask RCNN"

- Developed an image extraction framework to deliver actionable insights to farmers, optimizing agricultural productivity and resource utilization with a training accuracy of **99.83%**.

PROJECTS

Web Mart - Full-Stack E-Commerce Website

- Built a dynamic e-commerce platform using **HTML, CSS, JavaScript, Django**.
- Developed REST APIs for user authentication, product management, and order processing, resulting in a **98% user satisfaction rate**.

Healthcare Chatbot

- Architected an **intelligent virtual assistant** powered by machine learning, designed to support patients and healthcare professionals by delivering precise information, robust assistance, and actionable guidance.
- Achieved a **92% accuracy** rate in delivering relevant information, improving user experience and **reducing query resolution time by 40%**.

Live Object Recognition Using YOLO

- Implemented a real-time object recognition system using **computer vision** and **deep learning** models for object detection.
- Integrated the system with **Tkinter**-based GUI to create an interactive desktop application for real-time object recognition and dimensional analysis.
- Achieved a **98.41% recognition accuracy** with **98% precision** in real-time measurements.

HONOUR'S DEGREE

Artificial Intelligence & Machine Learning (AI & ML) (Jul 2022 - Jun 2024)
Received an Honour's Degree in AI & ML, specializing in computer vision, deep learning, neural networks, and NLP with a focus on **research** and **rigorous coursework**.