Prathamesh Sonawane

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SKILLS

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

EDUCATION

Master of Science in Computer Science
University of Utah (Aug 2024 – May 2026)
Bachelor of Engineering in Information Technology
VasantDada Patil College of Engineering, **CGPA: 8.78/10** (Aug 2020 – Jul 2024)

EXPERIENCE

Python Development, 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 - Training & Internship, 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 - Training & Internship, MSME & AICTE (Nov 2023)

- Successfully completed comprehensive training in web development, with hands-on experience in both front-end and back-end projects. Developed an **E-commerce website** and gained proficiency in HTML, CSS, JavaScript, Django and React.js.
- Achieved a **95%** project completion rate, demonstrating proficiency in creating responsive and dynamic web applications.

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

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 to users, leading to a **40% reduction** in query resolution time.

Voice-Controlled Robot IoT

- Designed and constructed a **robot** with the capability to execute tasks via voice commands, employing **Arduino microcontroller** boards.
- Successfully **reduced task execution time** by **35%** through efficient voice command processing.

Live Object Recognition Using YOLO

- Implemented a real-time object recognition system using **computer vision and deep learning models**, with capabilities for measuring dimensions in real time.
- Achieved a **98.41% recognition accuracy** and enabled real-time dimension measurements with a **98% precision rate**.

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**.