

# Yash Prabhakar Khairnar

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## EDUCATION

### Master of Science in Computer Science

*San Jose State University*

Coursework : Machine Learning, Cloud Computing, Graduate Writing

August 2025 – May 2027

*San Jose, CA*

### Bachelor of Engineering in Computer Engineering

*Savitribai Phule Pune University — GPA: 9.0/10*

June 2020 – June 2024

*Pune, India*

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Next.js, Node.js, Django, Flask, Express.js, FastAPI, Tailwindcss

**AI/ML:** TensorFlow, PyTorch, Keras, ROS, Scikit-learn, LangChain, LangGraph, Streamlit, MCP, OpenCV, YOLO, NVIDIA Triton, ONNX, spaCy, NLTK, NumPy, Pandas, Matplotlib

**Databases:** MySQL, SQL Alchemy, MongoDB, Mongoose, PostgreSQL, Prisma, Redis, DynamoDB

**Cloud & DevOps:** AWS, Cloudflare, Git, Docker, Kubernetes

## EXPERIENCE

### Software Engineer

*Accurate Industrial Controls Pvt. Ltd.*

July 2024 – June 2025

*Pune, India*

- Led a 6-member cross-functional team to develop a remote generator monitoring system with anomaly detection, Remaining Useful Life prediction, and predictive maintenance models, achieving 93% accuracy on 500+ hours of operational data
- Built an ANPR application using YOLOv11 and PaddleOCR with preprocessing pipelines, improving plate detection and text extraction to 97% accuracy
- Eliminated 100% of manual intervention in LPG cylinder inspection by designing a ROS-based pre-filling pipeline with NVIDIA Triton Server, YOLO for defect detection, and EasyOCR for text extraction, producing 93% model accuracy

### Artificial Intelligence Intern

*Accurate Industrial Controls Pvt. Ltd.*

August 2023 – November 2023

*Pune, India*

- Automated an anomaly detection pipeline for copper coils by leveraging PatchCore and YOLO for defect identification and object tracking, with image compression to optimize performance
- Reduced inference latency of a real-time video streaming app to 50 ms through pipeline optimization, GPU acceleration, multi-threading, and frame skipping
- Researched and evaluated pathfinding and collision avoidance algorithms like A\* and Potential Fields for an autonomous boat navigation system

### Deep Learning Intern

*ResoluteAI Software Pvt. Ltd.*

November 2022 – February 2023

*Bengaluru, India*

- Created a facial recognition attendance system with 90% accuracy and less than 2% FPR by combining MTCNN-based detection/alignment and an ANN for feature matching
- Engineered a PDF resume parser using PyPDF2 and Regex to extract structured data into JSON, automating 70% of manual data entry and improving efficiency
- Developed and deployed YOLO models for industrial automation, achieving 92% detection accuracy and streamlining inventory tracking through end-to-end ML pipelines

## PROJECTS

### ResuMatch - refine your resume | *Next.js, Flask, Reinforcement learning, LangGraph*

- Developed an AI-powered resume optimization system featuring two agents an RL Agent for iterative refinement and a Judge LLM for evaluative feedback
- Integrated Tavily API for real-time job retrieval, enabling context-aware and role-specific resume enhancement

### Slique - Job Search Platform | *Next.js, Tailwindcss, AWS, PostgreSQL, Prisma, OAuth, Google Gemini API*

- Built a full-stack platform connecting fashion models and brands with scalable backend and responsive UI
- Implemented real-time chat, notifications, and workflows for hiring, job posting, contracts, and scheduling
- Integrated Gemini API to enable GenAI-based job post and resume generation, streamlining casting