SUYASH HOLKAR

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CAREER OBJECTIVE

As a passionate and motivated fresher in Artificial Intelligence and Machine Learning, I am seeking an entry-level position where I can apply my academic knowledge, hands-on internship experience, and project work to solve real-world problems. I aim to contribute to innovative projects, grow as a professional, and continuously expand my technical and analytical skills in a dynamic and collaborative environment.

EDUCATION

B.E. – Artificial Intelligence and Machine Learning
Savitribai Phule Pune University, India
Dec 2021 – Jun 2025 | **CGPA: 8.32/10.0**

HSC (12th Grade)
M.S Kakde College
Jun 2020 – Apr 2021 | **Score: 78.63%**

SSC (10th Grade)
Jun 2018 – Mar 2019 | **Score: 76.80%**

CORE COMPETENCIES

- Machine Learning & Deep Learning
- Large Language Models (LLM) & Generative AI
- NLP & RAG (Retrieval-Augmented Generation)
- Agent Development & Workflow Automation
- Computer Vision & Image Processing
- API Development (FastAPI, REST APIs)
- Data Analysis & Visualization
- Problem-Solving & Team Collaboration

TECHNICAL SKILLS

Programming Languages: Python, SQL, HTML, CSS
AI/ML Frameworks: TensorFlow, PyTorch, YOLO, LangChain, CrewAI, Transformers, Hugging Face, LangGraph, Vector DB
Libraries: Pandas, Streamlit, NumPy, Matplotlib, Seaborn, MediaPipe, OpenCV, Scikit-learn
Tools & Platforms: n8n, Jira, MySQL, Google Colab, PyCharm, Git, FastAPI, Pydantic
Data Visualisation : Power BI, Tableau, Excel
Specialisations : LLM, RAG, NLP, Computer Vision, API Development

CERTIFICATIONS

- Machine Learning Research – DIAT-DRDO
- Python Programming – GUVI
- Daily Programming Challenge – Wisdom Sprouts
- Data Analyst Course – Q-Spiders

LANGUAGES

English, Hindi, Marathi

PROFESSIONAL SUMMARY

Engineering Graduate specializing in AI and ML with hands-on experience in developing intelligent agents, LLM-based applications, and deep learning solutions. Proficient in LangChain, n8n workflow automation, and building scalable APIs. Demonstrated expertise through internships at Fusionpact Technologies and DIAT-DRDO, working on live projects including smart calling agents, backend systems, and image processing models. Strong foundation in Python, TensorFlow, NLP, and computer vision with proven ability to deliver production-ready solutions.

WORK EXPERIENCE

Fusionpact Technologies *Aug 2025 – Present*
AI Intern

- Developing intelligent calling agents for screening and sales automation using n8n workflow automation and LangChain framework.
- Building end-to-end application for workflow execution with integration of Large Language Models (LLMs).
- Contributing to backend development team, designing and implementing RESTful APIs for ISO certification application using FastAPI.
- Utilizing Hugging Face models and transformers for NLP tasks and agent intelligence enhancement.
- Collaborating with cross-functional teams using Jira for project management and sprint planning.

Defence Institute of Advanced Technology (DRDO), Pune
Machine Learning Intern *6 Months*

- Developed CNN-based image de-noising model using U-Net architecture for defence imaging applications, achieving significant improvement in PSNR metrics.
- Preprocessed and augmented large-scale image datasets for training robust deep learning models.
- Conducted research on advanced image processing techniques and reported findings under Dr. Pooja Agarwal's guidance.
- Collaborated with research teams to optimize model performance for real-time defence applications.

PROJECTS

Calling Agent with Workflow Execution App

- **Technologies:** LangChain, n8n, LLM, Python, FastAPI
- Developed intelligent calling agents for automated screening and sales conversations using LLMs and workflow automation.
- Built custom workflow execution engine with n8n integration for seamless automation and monitoring.
- Designed FastAPI-based backend to manage agent interactions, logging, and analytics.

Voice-Activated Human Following Robot

- **Technologies:** YOLO, Computer Vision, FastAPI, Raspberry Pi
- Engineered voice-controlled robot with real-time human detection and tracking using YOLO algorithm.
- Integrated camera modules for computer vision-based navigation and obstacle avoidance.
- Developed FastAPI interface for remote control and real-time monitoring capabilities.

Image De-noising Using CNN

- **Technologies:** TensorFlow, CNN, U-Net, Python
- Implemented U-Net architecture for medical and defence image de-noising applications.
- Achieved improved PSNR scores through hyperparameter optimization and data augmentation.
- Trained model on Kaggle datasets using Google Colab for efficient computation.