

Rohit Sharma

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ABOUT

Innovative Machine Learning Engineer with expertise in algorithm design, model optimization, and data preprocessing. Skilled in multiple languages and ML frameworks to deliver scalable solutions.

EXPERIENCE

- Summer Intern

June 2025 – July 2025

- Indian Institute of Technology, Mandi(H.P)
 - VLMaps Research:** Contributed to research on VLMaps - a unified embedding space for Visual-Language Navigation (VLN), enhancing cross-modal understanding and improving navigation success rates by 18% in simulated environments.
 - Unified Embedding Optimization:** Developed and fine-tuned a shared embedding space integrating vision and language features, achieving a 12% increase in cross-modal retrieval accuracy.
 - VLN Pipeline Enhancement:** Integrated VLMaps into existing VLN frameworks, reducing navigation planning latency by 22% and improving generalization to unseen environments by 15%.
- ML & AI Intern

June 2024 – July 2024

- Ingenx Technology Pvt. Ltd, Gurugram(H.R)
 - AutoML Application:** Designed and implemented an AutoML regression application to automate model selection and hyperparameter tuning, improving prediction accuracy by 15% and user engagement by 30%.
 - SAP AI Integration:** Explored SAP AI capabilities to develop intelligent applications, delivering a prototype that reduced process time by 20%.
 - Chatbot Development with OpenAI:** Developed a chatbot using OpenAI and Chainlit models, increasing user satisfaction by 25% and reducing response time by 50%.

EDUCATION

- JawaharLal Nehru Govt. Eng. College

Sundernagar, India

- BTech in Computer Science (AI & ML) - CGPA: 7.672022 – 2026
 - Key Courses: Data Structures, Machine Learning, Artificial Intelligence, Computer Vision
- Indian Institute of Technology, Madras

India

- BS in Data Science and Applications(Diploma level) - CGPA: 7.002023 – 2027
 - Key Courses: Business Data Management, Machine Learning, Tools for Data Science, DBMS

TECHNICAL SKILLS

- Languages:** Python, C++, SQL, Java
- Frameworks:** TensorFlow, PyTorch, Keras, Flask, Streamlit, Langchain, Langgraph
- Tools:** Git, Docker, VS Code, Jupyter Notebook, N8N
- Soft Skills:** Problem Solving, Teamwork, Time Management, Communication

PROJECTS

- VisionAssist: AI-Powered Assistive Vision for the Visually Impaired (Computer Vision, A.I):** Developed an AI-powered assistive vision system achieving 94.2% object detection accuracy and 89.7% OCR text recognition rate with real-time processing at 30+ FPS. Implemented visual language navigation with text-to-speech functionality and grid-mesh spatial mapping, improving user navigation efficiency by 78% in testing scenarios. Tech: **YOLOv8**, **LangChain**, **OCR**, **VLN**, **N8N** (2025)
- DeepVision: Advanced Image Recognition System (Deep Learning, Computer Vision):** Engineered a deep learning-based image recognition system utilizing **CNN architectures**, achieving 96.5% accuracy on a diverse dataset of over 50,000 images. Optimized model performance through hyperparameter tuning and implemented on cloud platforms for scalable deployment. Tech: **TensorFlow**, **Docker**, **Kubernetes** (2024)
- ModelOps: Automated ML Deployment Pipeline (Model Optimization, Deployment):** Designed and implemented an automated ML pipeline for model optimization and deployment, reducing deployment time by 50%. Integrated CI/CD tools and container orchestration for seamless updates and scaling. Tech: **Python**, **TensorFlow**, **Docker**, **Kubernetes** (2024)

PUBLICATIONS

HybridStack-MLP: Advanced Ensemble Learning for Malicious QR Code Detection: Presented at the Cybersecurity Conference, 2025. This AI-powered hybrid stacking model achieved an impressive 91.30% accuracy in detecting malicious QR codes and phishing URLs, showcasing the potential of ensemble learning in cybersecurity.

VLMaps: Unified Embedding Space for Visual-Language Navigation: Presented at the Computer Vision Workshop, 2025. This work explores a unified embedding space to enhance visual-language navigation, contributing significantly to advancements in computer vision and natural language processing integration.

HONORS AND AWARDS

- State Level Smart Hackathon

2025
- Secured 1st position at SLSH Hackathon Himachal Pradesh presenting Vision Assist.
- Smart India Hackathon

2025
- Secured 1st position twice in college-level SIH competition.

VOLUNTEER EXPERIENCE

• Event Organizer for Drama in Fest, JNGEC <i>Coordinated drama events during college fest, organizing rehearsals & overseeing event logistics.</i>	Himachal Pradesh, India 2023-2025
• Coding Club Vice President at CSE Student Clubs, JNGEC <i>Led a team to organize the coding events, hackathons and coding challenges, impacting students.</i>	Himachal Pradesh, India Jan 2024 - Present

AWARDS

- State Level Smart Hackathon Winner - 2025
- Smart India Hackathon College Champion (2x) - 2025
- Best AI Project Award - JNGEC 2024

HONORS

Honors

- Dean’s List - Fall 2023, Spring 2024
- Google Code Jam Participant - 2024
- ACM Student Member - 2023-Present