SARVJEET RAJ VERMA

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PROFILE

Machine Learning Engineer with a B.Tech in Computer Science & Engineering, experienced in building and deploying AI/ML solutions. Skilled in Python, SQL, C++, TensorFlow, PyTorch, Scikit-learn, and LLM frameworks (LangChain, LangGraph, Hugging Face) with expertise in RAG-based systems. Recognized for combining technical expertise with problem-solving to develop scalable, data-driven applications and intelligent systems.

EDUCATION

Katihar Engineering College, Katihar   *Katihar, India*
Bachelor of Technology in Computer Science || CGPA : 8.03   2023 – 2027

SKILLS

Technical: Python, SQL, C++, Pandas, NumPy, TensorFlow, PyTorch, Scikit-learn, Keras, XGBoost, Hugging Face, LangChain, LangGraph, Ollama, Llama 3.2, RAG, MySQL, MongoDB, ChromaDB
Tools: Git, GitHub, VS Code, Jupyter Notebook

LEADERSHIP & ACHIEVEMENTS

TechFest Coordinator: (2025 and 2026) Led strategic planning, team management, sponsorship acquisition, logistics coordination, and promotional campaigns for TechFusion, delivering a high-impact annual college techfest.
Hackathons & Competitions:

1st Place | **Bot-A-Maze** (2026) — Autonomous navigation and algorithm optimization

1st Place | **RoboRace** (TechFusion 2025) — High-speed robotics control and integration

2nd Place | **Hackathon** (TechFusion 2025) — Advanced prototyping and collaborative coding

2nd Place | **RoboWar** (2025) — Strategic robot design and competitive execution

3rd Place | **RoboRace** (2024) — Consistent competitive robotics performance

EXPERIENCE

Freelance AI Trainer – RLHF | Soul AI | Jan 2025 – Apr 2025
- Optimized Large Language Model performance using RLHF, enhancing contextual understanding and intent recognition.
- Assessed and refined AI outputs to minimize hallucinations and maintain consistency across multi-turn conversations.

Software Developer Intern – Invigo Educare Pvt. Ltd. (Department of Industries) | Onsite | Dec 2025 – Jan 2026
- Developed and maintained web application features, delivering responsive and user-friendly interfaces.
- Enhanced website performance by conducting testing, debugging, and implementing reliability improvements.

PROJECTS

Adaptive Crop Optimization Platform | Jan 2025 – Mar 2025 |Link
- Developed a real-time crop management system with a responsive frontend, automatically fetching local weather, soil data.
- Improved model accuracy using ensemble ML techniques with XGBoost, providing adaptive recommendations for irrigation, fertilization, and crop rotation.
- **Tech Stack:** React.js, JavaScript, Python, XGBoost, Pandas, NumPy, REST APIs

Contextual Review Q&A System | Apr 2025 – May 2025| Link
- Built a RAG-based pipeline for high-fidelity semantic retrieval from customer reviews, enabling interactive querying and insights extraction. Reduced manual analysis time by 70% via a Streamlit interface and optimized vector search.
- **Tech Stack:** LangChain, Llama 3.2, ChromaDB, mxbai-embed-large embeddings, Python, Streamlit