

# SACHIN JANGID

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## EDUCATION

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### Bachelor of Technology

Indian Institute of Technology Jammu • 2022

## EXPERIENCE

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### SDE-2 AI/ML

Nuvo AI (Meril)

September 2025 – Present, Bangalore

- Developed and integrated **Large Language Models (LLMs)** to power a comprehensive **Healthcare AI platform**, enabling advanced features like **real-time conversational chat** and **detailed report analysis**.
- Significantly **optimized backend service performance** and **data processing pipelines** to ensure low-latency responses for a high-availability, multi-user healthcare system.
- Managed the transition of key services into production environments using **Docker containerization**, focusing on **stability, scalability, and ease of deployment**.

### Machine Learning Engineer

Samsung Research Institute - Delhi

July 2022 – September 2025, Noida

- Developed and deployed advanced **Large Language Model (LLM)** solutions, including complex **agentic workflows** using **LangChain** and **LangGraph** to automate sophisticated query resolution.
- Engineered a **CNN-based real-time detection system** for critical sound events, achieving a **96% F1 Score** and utilizing innovative mathematical methods to reduce false alarms by **98%**.
- Applied strong **data engineering** skills by efficiently compiling, cleaning, and manipulating large, high-dimensional datasets to ensure model reliability and maximize performance.
- Managed the operational lifecycle of AI applications, deploying multi-agent systems on **Google Cloud Platform (GCP)** and designing user-friendly MLOps tools to improve production model maintenance efficiency by **30%**.

## PROJECT

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### Proximity based Device Screen Activation using WIFI CSI and Sound Event Detection

Samsung Research Institute Delhi

- Developed a **CNN-based Wi-Fi CSI** system to accurately detect device proximity achieving a **95% F1 Score**.
- Implemented a CNN-based **sound event detection system** for Samsung Home Appliances, enabling Realtime recognition of sound gestures (claps, knocks, snaps) achieving a **96% F1 Score**.
- Deployed the solution on various devices (TVs, Smart Monitors, and Fhubs) to **enhance user experience**.

### Underwater Image Enhancement

IIT JAMMU

- Designed a competitive underwater image enhancement model using **TensorFlow and Keras**, achieving **10% better performance than base model** in restoring underwater images.
- Implemented a **Generative Adversarial Network (GAN)** to significantly improve visual perception and clarity of underwater images, resulting in a **more natural and realistic appearance**.

## SKILLS

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C++, Python, Generative AI, Machine Learning, AI, AI Integration, Natural Language Processing, TensorFlow, PyTorch, Scikit-Learn, LLM, Computer Vision, Model Quantization, Data Analytics, Data Science, Feature Engineering, Git, Perforce

## AWARDS & HONORS

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### Best Collaboration Award, Annual Start Award

Samsung Research Institute - Delhi

- Recognized for outstanding teamwork and exceptional performance.