

# Asang Triratna Ingle

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Respected Hiring Team,

I hope you are doing well. I am writing to express my interest in the **Machine Learning for Electronics Design Automation – Internship** at **Siemens Research**. I am a final-year B.Tech student at IIIT Nagpur, working extensively in machine learning and deep learning, with a strong interest in applying AI to complex engineering and design systems.

My background is rooted in applied machine learning using Python, with hands-on experience in NumPy, Pandas, scikit-learn, and visualization libraries for structured experimentation, model evaluation, and data-driven analysis. I have worked on problems involving large, structured datasets and have developed an intuition for translating engineering constraints into learnable ML formulations.

Through my projects, I have focused on building complete ML pipelines rather than isolated models. This includes real-time systems using deep learning for detection and tracking, as well as research-oriented healthcare projects such as malaria detection using CNNs and accelerated MRI reconstruction using a hybrid ViT–CNN architecture. These projects required careful experimentation, metric-driven evaluation, and clear technical documentation—skills directly relevant to industrial research environments.

While my prior work has been primarily in computer vision and medical imaging, I am deeply interested in extending my ML expertise to Electronics Design Automation. In particular, I am motivated by the use of machine learning to model complex design decisions, represent structured engineering data, and accelerate verification and optimization workflows. I am actively building familiarity with graph-based representations, generative modeling concepts, and research literature at the intersection of ML and EDA.

I am particularly drawn to Siemens Research’s mission of creating intelligent design companions and cognitive twins for engineers. The opportunity to work on low-TRL research, develop demonstrators, and contribute to technology transition aligns strongly with my goal of pursuing research-driven, real-world ML applications.

I bring strong ML fundamentals, a disciplined engineering mindset, and a genuine willingness to learn domain-specific concepts quickly. I would be grateful for the opportunity to contribute to your research team and further develop my expertise in ML-driven EDA systems.

Thank you for your time and consideration.

Yours sincerely,

**Asang Triratna Ingle**