A person wearing a floral shirt

Description automatically generated

Dr. Priya Aggarwal attended the Indraprastha Institute of Information Technology (IIIT), Delhi from 2013 to 2018, where her PhD thesis was a pioneering demonstration of machine learning techniques for inferring human functional brain networks using medical imaging modality. After spending few months in GE global research, Bangalore with contribution in building machine learning based classifier to distinguish autistic patient with the normal population, she joined Vehant technology formerly Kritikal securescan in 2018, wherein she led initiatives that enhanced city safety through automatic explosive detection, no-helmet detection, and high-speed detection. She also developed COVID-19 and hygiene-related analytics solutions and contributed to crowd detection technology used at Maha Kumbh Prayagraj 2025. Since May 2022, she has been working as Senior Staff R&D AI Engineer at Synopsys Inc, where she leads an artificial intelligence experts team focused on implementing innovative AI-based smart EDA verification solutions. At Synopsys Inc., Dr. Aggarwal is leveraging AI to innovate in the EDA domain, focusing on AI-driven solutions for design requirements extraction and test case generation. She filed a US patent application in 2024 and published a paper at the Design and Verification Conference India, solidifying her role as a notable contributor in EDA verification. She is also keen interest collaborating with fellow researchers. In medical imaging, Dr. Aggarwal created an automated neurodisease diagnosis classifier for disorders such as Schizophrenia and Autism, which has been published in top-tier journals. She proposed the O-ARIMA model for predicting COVID-19 cases, featured in the Applied Soft Computing Journal 2022, which achieves minimal prediction error. She also identified potential biomarkers for predicting COVID-19 severity, which has been appreciated by medical doctors for its interpretability and practical utility in patient care. This tool is available online at http://covidseverity.sbilab.iiitd.edu.in/. Additionally, she contributed to a risk group predictor for cancer patients, marking the first deep learning-based model on an Indian cohort of 1070 patients.

She has made substantial contributions to computer vision image & video analytics, medical imaging, and electronic design automation (EDA), authored multiple technical papers in scientific journals and conferences and filed patents also. She is a recipient of Visvesvaraya fellowship, Deity, Govt. of India.

With a Ph.D. from IIIT-Delhi (2019), she specializes in Generative AI, RAG, Agentic AI, natural language processing, computer vision, and machine/deep learning applications. She has demonstrated exceptional leadership in promoting AI technologies within EDA, receiving recognition through the Q2 2023 SDG award for her team leadership, research publications, and patent contributions. She has successfully increased internal deployment of Machine Learning Specification Analyzer (MLSA) capabilities like Auto high level verification plan generation and checks extraction while leveraging LLM models to improve quality of results for wider deployment. Her experience also includes work with major semiconductor clients including Intel, Qualcomm MediaTek, and AMD.

so far published 11 research papers in international refereed journals, 1 book chapter (MICCAI Core A conference), 2 research papers in international conferences (including GlobalSIP, PIMRC) and 1 research paper in national conference. One of her significant contribution has investigated alterations in functional brain networks in subjects with Autistic Spectrum Disorder (ASD) in comparison with Typically Developing Control (TDC) using functional magnetic resonance imaging data. This research proposed a new framework to detect dynamic human brain networks and to study their alterations in autism disorder. The proposed methodology is able to provide information on alterations in dynamic functional brain networks in ASD and may provide potential biomarkers for studying human brain disorders. With further validation, this may become an alternative approach for characterizing diseased state and may possibly have clinical significance in diagnosis and monitoring of neuro-disorders. This work recently got published in top notch medical image analysis journal with impact factor 5.35.  To add more, recently she also looked at risk stratification in cancer patients  and proposed risk groups of patients which might be potentially used for timely diagnosis of the disease.  Since 2014, I have witnessed the exceptional contributions that Priya has made to research community. Within a span of 4 years during PhD, she has got number of publications in top-tier journals and conferences. She has remarkably good research skills and drives the works independently.

Dr. Aggarwal's research background includes pioneering work on machine learning techniques for inferring human functional brain networks using medical imaging modality. She combines technical expertise with strong leadership skills, consistently encouraging creative and innovative solutions to solve complex EDA challenges.

Dr. Priya has demonstrated success at implementing or promoting Artificial Intelligence based smart EDA verification solutions and achieving a high level of success and competency. She has used her leadership skills to successfully implement or promote an AI technology via maintaining a great high team spirit. She is leading an artificial intelligence experts team with full of her ability to encourage and sponsor creative innovative automative solutions to solve for EDA challenges. She has also received Q2 2023 SDG award recognition which was based on nicely leading her team and publishing research papers and patent in various forms. She puts her loyalty and the passion for the betterment of her team-mates and stakeholders. As an example, Dr. Priya embraced verification group on a VIP tech day conference, capitalizing her ability to reach to diverse audiences with the valuable information on AI in verification opportunities. Her team also being recognized for smarter teamwork by the Manager on appreciation day.

Design Verification engineer

where I got the opportunity to work in VIP development and IP Verification.

I worked for ADI client through Cientra Tech solution where I was able to work in ADC , CDE VIP development and other IP verification.

I have nearly 3 years of experience in IP verification. Outside of work, I enjoy playing guitar and badminton.

\*\* notable accomplishments in the current role \*\*

Yes, Dr. Aggarwal filed a US patent application in 2024 and published a paper at the Design and Verification Conference India, solidifying her role as a notable contributor in EDA verification.

Dr. Aggarwal has made significant contributions in her current role with three key accomplishments, each having substantial engineering and social significance:

Yes, Dr. Aggarwal filed a US patent application in 2024 and published a paper at the Design and Verification Conference India, solidifying her role as a notable contributor in EDA verification.

Dr. Aggarwal has made significant contributions in her current role with three key accomplishments, each having substantial engineering and social significance:

1. **\*\*Automated Register Attribute Generation\*\***: Dr. Aggarwal developed an automated solution that extracts register attributes directly from specification PDFs using machine learning techniques. This solution outputs the details in an Excel file, which can be integrated into other components to generate design code in various languages like C, system verilog (SV), and Register Transfer Language (RTL). This innovation, recognized by Synopsys and filed for a patent in 2024. Solution also models the complete environment, coverage model, and tests to validate the implementation, greatly enhancing efficiency and accuracy in the design process.

2. **\*\*Automation of Verification Requirements Extraction\*\***: She proposed a solution to automate the extraction of verification requirements for RTL systems using machine learning. This approach performs automated layout analysis on specification PDFs, distinguishing between different elements such as text, tables, and diagrams, and extracts requirements using ML techniques. This innovation, patented in 2022, streamlines the traditionally manual and time-consuming verification process, ensuring thorough and rapid verification of RTL designs.

3. **\*\*EDA Chatbot Development\*\***: Dr. Aggarwal contributed to developing an EDA Chatbot interface supported by internal class references XML files as a knowledge base. This chatbot allows users to interact through intent-based searches to seamlessly create high level verification plan in the chip design. Leveraging large language models (LLMs), she improved the quality of results and developed APIs for various projects, enhancing user experience and efficiency in electronic design automation (EDA).

θ   GEN AI enabled MLSA deployment to VIP titles

θ   Purple poster ideation and submission

θ   Integration of MLSA-LLM with Automation Utility for New Protocol Check identification

θ   Gen AI based automation for Compliance Test Suite generation

1)      Increased internal deployment of MLSA capabilities like Auto HVP, Checks extraction by continuously tracking on titles on whom the flow has deployed.

2)      Share Coverage Extraction project plan and identify the key support and deliverer as per agreed ETA.

3)      Leverage LLM models for improving the quality of results and help with wider deployment.

1. **\*\*A New Approach of Hardware Verification Through Natural Language Queries\*\***

   - **\*\*Objective:\*\*** Utilize Large Language Models (LLMs) for intelligent verification requirements extraction, aiming to reduce verification time in Electronic Design Automation (EDA).

   - **\*\*Contribution:\*\*** Improved verification quality using LLMs and developed APIs for Synopsys.

   - **\*\*Evidence:\*\*** Research paper published in DVCON India 2024.

2. **\*\*Machine Learning Enabled Engineer's Efficiency Assessment\*\***

   - **\*\*Objective:\*\*** Use Perforce and Jira logs to generate developer activity metrics and send automated reports to managers.

   - **\*\*Contribution:\*\*** Managed end-to-end process from problem articulation to ML model deployment.

   - **\*\*Evidence:\*\*** Deployed internally at Synopsys for developer efficiency tracking.

3. **\*\*Medical Imaging Projects in Collaboration with IIIT-Delhi\*\***

   - **\*\*Objective:\*\*** Worked on various R&D projects including COVID-19 forecasting, a durvey on deep learning for COVID-19 imaging classification, cancer survival predictions, autism classification, and COVID-19 severity prediction.

   - **\*\*Contribution:\*\*** Researched, prototyped, guided students, and co-authored research papers.

   - **\*\*Evidence:\*\*** Papers published in Cureus 2024, Computers in Biology and Medicine 2022, Applied Soft Computing 2022. COVID-19 severity prediction tool available online.

1. **\*\*Automated Neurodisease Diagnosis Classifier\*\***

   - **\*\*Objective:\*\*** Developed an automated neurodisease diagnosis classifier for disorders like Schizophrenia and Autism, using advanced multivariate signal processing and dynamic brain networks.

   - **\*\*Contribution:\*\*** Published in top-tier Medical Image Analysis Journal (2017 & 2019). This method could potentially aid in diagnosing and monitoring neuro-disorders clinically.

2. **\*\*O-ARIMA Model for COVID-19 Prediction\*\***

   - **\*\*Objective:\*\*** Proposed the O-ARIMA model for predicting COVID-19 cases, achieving lower prediction errors than existing methods.

   - **\*\*Contribution:\*\*** Forecasts COVID-19 metrics for heavily affected regions and provides continuous monitoring capabilities.

   - **\*\*Evidence:\*\*** Published in Applied Soft Computing Journal (2022).

3. **\*\*Deep Learning-Based Cancer Risk Groups Predictor\*\***

   - **\*\*Objective:\*\*** Developed a deep learning-based risk groups predictor for cancer patients, focusing on multiple myeloma and breast cancer, using data from an Indian cohort.

   - **\*\*Contribution:\*\*** Offers interpretability for patient-specific predictions, aiding in patient care and treatment.

   - **\*\*Evidence:\*\*** Published in Computer in Biology & Medicine Journal (2022).

4. **\*\*Computer Vision Video Analytics at Vehant Tech\*\***

   - **\*\*Objective:\*\*** Contributed to computer vision video analytics for security and surveillance.

   - **\*\*Contribution:\*\*** Improved safety through automatic explosive detection, no-helmet detection, speed detection, COVID-19 and hygiene-related solutions, and a crowd detection project for Maha Kumbh Prayagraj.

5. **\*\*Biomarkers for Predicting COVID-19 Severity\*\***

   - **\*\*Objective:\*\*** Worked on identifying biomarkers for predicting COVID-19 severity.

   - **\*\*Contribution:\*\*** Created an AI model with interpretability that helps in patient care. Contributed to a cancer risk group predictor, the first deep learning model for an Indian cohort of 1070 patients.

   - **\*\*Evidence:\*\*** Online calculator available at http://covidseverity.sbilab.iiitd.edu.in/.

6. **\*\*AI Innovation in EDA at Synopsys Inc.\*\***

   - **\*\*Objective:\*\*** Uses AI for innovation in the EDA domain, focusing on AI-driven design requirements extraction and test case generation.

   - **\*\*Contribution:\*\*** Filed a US patent application in 2024 and published related research.

7. **\*\*Automated Register Attribute Generation\*\***

   - **\*\*Objective:\*\*** Developed an automated solution that extracts register attributes directly from specification PDFs using machine learning techniques.

   - **\*\*Contribution:\*\*** Outputs details in an Excel file, integrates into other components to generate design code in various languages like C, System Verilog (SV), and Register Transfer Language (RTL). Models the complete environment, coverage model, and tests to validate the implementation.

   - **\*\*Evidence:\*\*** Recognized by Synopsys and filed for a patent in 2024.

8. **\*\*Automation of Verification Requirements Extraction\*\***

   - **\*\*Objective:\*\*** Proposed a solution to automate the extraction of verification requirements for RTL systems using machine learning.

   - **\*\*Contribution:\*\*** Performs automated layout analysis on specification PDFs, distinguishing between different elements such as text, tables, and diagrams, and extracts requirements using ML techniques.

   - **\*\*Evidence:\*\*** Patented in 2022.

9. **\*\*EDA Chatbot Development\*\***

   - **\*\*Objective:\*\*** Contributed to developing an EDA Chatbot interface supported by internal class references XML files as a knowledge base.

   - **\*\*Contribution:\*\*** Allows users to interact through intent-based searches to seamlessly create high-level verification plans in chip design. Leveraged large language models (LLMs) to improve the quality of results and developed APIs for various projects.

1. \*\*Automated Register Attribute Generation\*\*: Dr. Aggarwal developed an automated solution that extracts register attributes directly from specification PDFs using machine learning techniques. This solution outputs the details in an Excel file, which can be integrated into other components to generate design code in various languages like C, system verilog (SV), and Register Transfer Language (RTL). This innovation, recognized by Synopsys and filed for a patent in 2024. Solution also models the complete environment, coverage model, and tests to validate the implementation, greatly enhancing efficiency and accuracy in the design process.

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- \*\*Contribution:\*\* Researched, prototyped, guided students, and co-authored research papers.

- \*\*Evidence:\*\* Papers published in Cureus 2024, Computers in Biology and Medicine 2022, Applied Soft Computing 2022. COVID-19 severity prediction tool available online.

1. Dr. Priya developed an automated neurodisease diagnosis classifier for disorders like Schizophrenia and Autism, using advanced multivariate signal processing and dynamic brain networks (published in top- tier Medical Image Analysis Journal, 2017 & 2019). This method could potentially aid in diagnosing and monitoring neuro-disorders clinically.
2. Dr. Priya proposed the O-ARIMA model for predicting COVID-19 cases, achieving lower prediction errors than existing methods (Applied Soft Computing Journal, 2022). The model forecasts COVID-19 metrics for heavily affected regions and provides continuous monitoring capabilities.
3. Dr. Priya developed a deep learning-based risk groups predictor for cancer patients, focusing on multiple myeloma and breast cancer, using data from an Indian cohort (Computer in Biology & Medicine Journal, 2022). The model, appreciated by medical professionals, offers interpretability for patient-specific predictions, aiding in patient care and treatment.
4. At Vehant Tech, Dr. Aggarwal contributed to computer vision video analytics for security and surveillance, improving safety through automatic explosive detection, no-helmet detection, and speed detection etc. She also developed COVID-19 and hygiene-related solutions and a crowd detection project for Maha Kumbh Prayagraj.
5. Dr. Aggarwal worked on identifying biomarkers for predicting COVID-19 severity, creating an AI model with interpretability that helps in patient care. The online calculator is available at http://covidseverity.sbilab.iiitd.edu.in/. She also contributed to a cancer risk group predictor, the first deep learning model for an Indian cohort of 1070 patients.
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Dr. Aggarwal noted contribution that sets her apart is her unwavering commitment to staying connected with the IIIT-Delhi. She actively collaborate with current students on projects, and provide guidance to recent graduates entering the professional world. She have published five papers in renowned journals after graduation in collaboration with SBILAB of IIIT-Delhi.

\*\* Medical Imaging Projects in Collaboration with IIIT-Delhi\*\*

- \*\*Objective:\*\* Worked on various R&D projects including COVID-19 forecasting, a survey on deep learning for COVID-19 imaging classification, cancer survival predictions, autism classification, and COVID-19 severity prediction.

- \*\*Contribution:\*\* Researched, prototyped, guided students, and co-authored research papers.

- \*\*Evidence:\*\* Papers published in Cureus 2024, Computers in Biology and Medicine 2022, Applied Soft Computing 2022. COVID-19 severity prediction tool available online.

\*\*Publication List:\*\*

Dr. Priya so far published 14 research papers in top-tier journals, 1 book chapter (MICCAI Core A conference), 2 research papers in international conferences (including GlobalSIP, PIMRC), 3 research papers in national conferences (including ICVGIP, DVCON) and filed one patent.

Patents:

1. Priya Aggarwal, Samuel P. Katapur, Parth Bhatia, Nusrat Ali, Apoorva Mathur and Jitendra Puri, “*Machine learning enables automated register modelling from specifications*”, 4555-US01-NPV-PRI, 2024

Journals:

1. Anubha Gupta, Pushpendra Singh, Priya Aggarwal, Shiv Dutt Joshi, “*Unified framework for linear scale invariant signals, systems, and transforms: A tutorial*”, [Digital Signal Processing](https://www.sciencedirect.com/journal/digital-signal-processing), vol. 157, 2025.
2. Dikshant Sagar, Tanima Dwivedi, Anubha Gupta, Priya Aggarwal, Sushma Bhatnagar, Anant Mohan, Punit Kaur, Ritu Gupta, “*Clinical Features Predicting COVID-19 Severity Risk at the Time of Hospitalization*”, Cureus, vol. 16, 2024.
3. Dikshant Sagar, Priya Aggarwal, Akanksha Farswan, Ritu Gupta, Anubha Gupta, “*GCRS: a hybrid Graph Convolutional Network for risk stratification in Multiple Myeloma Cancer Patients*”, Computers in Biology and Medicine, vol. 149, pp. 106048, 2022.
4. Priya Aggarwal, Narendra Kumar Mishra, Binish Fatimah, Pushpendra Singh, Anubha Gupta, “*COVID-19 image classification using deep learning: Advances, challenges and opportunities*”, Computers in Biology and Medicine, vol. 144, pp. 105350, 2022.
5. Binish Fatimah, Priya Aggarwal, Pushpendra Singh and Anubha Gupta, “*A Comparative Study for Predictive Monitoring of COVID-19 pandemic*”, Applied Soft Computing, vol. 122, pp. 108806, 2022.
6. Priya Aggarwal and Anubha Gupta, “*Group-fused multivariate regression modeling for group-level brain networks*”, Neurocomputing, vol. 363, pp. 140-148, 2019.
7. Priya Aggarwal and Anubha Gupta, “*Multivariate graph learning for detecting aberrant connectivity of dynamic brain networks in autism*”, Medical Image Analysis, vol. 56, pp. 11-25, 2018.
8. Priya Aggarwal and Anubha Gupta, “*Low rank and sparsity constrained method for identifying overlapping functional brain networks*”, PLOS One, 2018.
9. Priya Aggarwal and Anubha Gupta, "*Dynamic Phase Synchrony based Ranked Spatio-Temporal Clustering for Tracking Time-Resolved Functional Brain Networks”,* bioRXiv, 2017.
10. Priya Aggarwal and Anubha Gupta, "*Double temporal sparsity based accelerated reconstruction of compressively sensed resting-state fMRI*”, Computers in Biology and Medicine, vol. 91, pp. 255-266, 2017.
11. Priya Aggarwal, Anubha Gupta, and Ajay Garg, “*Multivariate brain network graph identification in functional MRI*”, Medical Image Analysis, vol. 42, pp. 228-240, 2017.
12. Priya Aggarwal, Parth Shrivastava, Tanay Kabra, and Anubha Gupta, “*Optshrink LR+S: accelerated fMRI reconstruction using non-convex optimal singular value shrinkage”,* Brain Informatics, pp. 1-19, 2017.
13. Priya Aggarwal and Anubha Gupta, “*Accelerated fMRI reconstruction using matrix completion with sparse recovery via split bregman*”, Neurocomputing, vol. 216, pp. 319-330, 2016.
14. Priya Aggarwal, Anubha Gupta, and Vivek Bohara, “*Recursive least squares channel estimation for rapidly time-varying scenarios in IEEE 802.11p*”, Wireless Personal Communications, pp. 1-14, 2016.

Conferences:

1. Priya Aggarwal, Samuel P. Katapur, Parth Bhatia, Viral Sharma and Nusrat Ali, “Machine learning enabled automated register modelling from specifications”, Design and Verification Conference and Exhibition (DVCON), 2024, Bangalore, India
2. Anant Mittal, Priya Aggarwal, Luiz Pessoa, Anubha Gupta, “[*Robust Brain State Decoding*](https://www.biorxiv.org/content/10.1101/2021.06.18.449069v1.abstract)[*using Bidirectional Long Short Term Memory Networks in functional MRI,*](https://www.biorxiv.org/content/10.1101/2021.06.18.449069v1.abstract)” Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), 2021, Jodhpur, India.
3. Pinkal Patel, Priya Aggarwal, and Anubha Gupta, “*Classification of schizophrenia versus normal subjects using deep learning,”* Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), 2016, Guwahati, India.
4. Priya Aggarwal, Anubha Gupta and Ajay Garg, "*Joint estimation of activity signal and HRF in fMRI using Fused LASSO*", IEEE GlobalSIP, 2015, USA.
5. Priya Aggarwal, Anubha Gupta and Ajay Garg, "*Joint estimation of hemodynamic response function and voxel activation in functional MRI data* ", International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI), 2015, Munich, Germany.
6. Priya Aggarwal, Anubha Gupta, and Vivek Ashok Bohara, “A guard interval assisted OFDM symbol-based channel estimation for rapid time-varying scenarios in IEEE 802.11p,” IEEE 26th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), 2015, Hong Kong.

\*\*Invited talks:\*\*

* Dr. Priya's research has been chosen by the verification group at Synopsys for presentation at the internal VIP Tech Day conference in both 2023 and 2024.
* She presented her selected paper at DVCON India in 2024.
* Additionally, she contributed to presenting innovative solutions at various internal conferences at Synopsys, including the Purple Poster and Engineer’s leading conferences events.
* She was also selected for a talk on her innovative work at the Doctoral Level by the Innovative Student Projects Award from INAE in 2019.
* She also invited as event speaker of “Summer school on EEG analysis and allied technologies held at IIIT-Delhi (2019)
* She also got selected as Program committee member of workshop on Medical Image Processing in ICVGIP, IIT Jodhpur, India (2021)

“Volunteer professional services”

Dr. Priya is a reviewer for leading conferences and journals: International Conference on Acoustics, Speech, and Signal Processing (ICASSP), IETE Journal of Research, IEEE Open Journal of Signal Processing, Computers in Biology and Medicine (CBM), International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI), IEEE Transaction on Circuits and Systems for Video Technology, IEEE Journal of Biomedical and Health Informatics, Medical Imaging with Deep Learning (MIDL), Plos One, IEEE Access, IEEE Transactions on Neural systems and Rehabilitation Engineering, IEEE International Symposium on Biomedical Imaging (ISBI), Neuroimage, Neurocomputing, Journal of Medical Imaging and Health Informatics, National Conference on Communications.

\*\*Awards achievement\*\*

1. Recipient of Spot light SDG award Recognition for Q2-2023 across South Asia for nicely leading the team, smarter teamwork and publishing research papers (2023)
2. Selected for Innovative Student Projects Award by INAE at Doctoral Level (2019)
3. Among best Doctoral Symposium, Visvesvaraya Ph.D. Scheme, IIT-B, Mumbai, India (2016)
4. Awarded Microsoft travel grant to attend MICCAI 2015 at Munich, Germany
5. Awarded IIIT-Delhi travel grant to attend MICCAI 2015 at Munich, Germany
6. Ph.D. fellowship by Visvesvaraya Ph.D. scheme at IIIT-Delhi, India (2015)
7. Best M.Tech. thesis nominee, IIIT-Delhi, India (2015)
8. Direct entry to Ph.D. based on excellent academic performance in Masters, IIIT-Delhi, India (2014)
9. Masters graduate fellowship, Ministry of Human Resource Development Delhi, India (2013)
10. Indira Gandhi Award, Central board of secondary education, Delhi, India (2006)
11. - Recipient of the prestigious Visvesvaraya Fellowship, Deity, Government of India
12. - Published 20+ papers in journals and international conferences, including 4 IEEE transactions and one patent
13. - Recognized for smarter teamwork by management
14. - Successfully implemented and promoted AI technologies with high competency

## Academic Background

- Ph.D., Electronics and Communication Engineering, IIIT-Delhi (2019)

- M.Tech., IIIT-Delhi (2015)

- B.Tech., Electronics and Communication Engineering, NIT-Jalandhar (2013)

I recently discovered the opportunity for a guest lecturer position at Synopsys and I am very interested in applying. I have 4 years of experience as a Senior AI Engineer and believe my expertise would be beneficial for this role.

Here is the job link for your reference:  
<https://careers.synopsys.com/job/-/-/44408/77400927824>

I kindly request you to consider my profile for this position. If this opportunity is within your team, I would greatly appreciate your consideration.

Below is a brief overview of my profile and I have also attached my resume for your convenience:

Currently, I am an AI Engineer at Infosys with 4 years of experience, primarily focusing on Generative AI, LLMs, Advanced RAG techniques, AI agents, agentic workflows, observability, and model fine-tuning/optimization. I have successfully built and deployed AI agents and LLM-powered solutions into production. At Infosys, I was part of a small, product-focused team that built a Gen AI platform from scratch, taking it from the ideation phase and design to deployment - now generating over $420K in annual revenue. I have led end-to-end AI projects and built multiple POCs. Beyond engineering, I have also contributed to product strategy, research, stakeholder alignment, and represented our AI solutions at conferences & meetups globally.

Thank you for your time and consideration. I look forward to your response.

Hi Sachin,

I am currently exploring opportunities for a part-time GEN AI Trainer role and guest lectureship. Do you know any open positions within your network?

Any help would be highly appreciated

For EDA companies:

Passionate and driven individual with 3+ years of extensive experience in chip design automated verification and methodology for worlds’ tool verficitaion provider Synopsys on PCIe, UCIe, …..

Core competencies include EDA verification tool development, Protocol checks identification, Test plan, test cases, system analyzer,

Interests/hobbies – travelling, blogs reading,

Adviser: Dr. Anubha Gupta

--Direct entry to Ph.D. based on excellent academic performance in Masters, IIIT-Delhi, India

--Published 20+ papers in Journals and International Conferences including 4 IEEE transactions

--Visvesvaraya Ph.D. Scheme Fellow 2015-19

--Among best Doctoral Symposium, Visvesvaraya Ph.D. Scheme, IIT-B, Mumbai, India (2016)

--Nominated for Innovative Student Projects Award by INAE at Doctoral Level (2019)

--Competent Professional with 5+ years of experience in Machine Learning and Data Science

--Adept in learning new tools and ability to work well in both team and individual environments

My PhD thesis is directed towards identifying and modeling the static and dynamic human brain networks using fMRI data. To this end, analytical techniques starting from multivariate regression modelling, optimization algorithm design, clustering, non-negative matrix factorization, and classification have become a prominent features of my research. Given my research findings on human brain networks, my work is also inclined towards classifying and understanding brain's deficit disorders (e.g., Autism and schizophrenia) from healthy population and help remedy clinical pathologies.

In addition I also worked on developing optimization algorithms for compressed sensing fMRI. To this end, I proposed sparse and matrix recovery techniques and devised algorithms to solve proposed formulations. This work has implication to capture fMRI data inside scanner in shorter time so to avoid patient’s annoyance inside scanner and improve data quality.

Currently building secure, air-gapped GenAI deployments for the Ministry of Defence (Qatar Armed Forces), using open-weight LLMs (LLaMA, Falcon, Mistral), LangChain, and FAISS for use cases like summarization, Q&A, and information retrieval.

1. Throughout the year, I presented several papers at both internal and external conferences, such as VIP Tech Day, DVCON India, purple poster event and EILC. I also filed my first patent for introducing automation in verification to increase productivity.
2. Leveraged LLM models for improving the quality of MLSA results and helped in making APIs for spec to coverage, spec to checkers projects.
3. I also assisted in the merging of MLSA and SVDOC teams and contributed to the strategy of development of an integration solution.
4. Leveraged ML for automated test-suite references update for different spec versions (piloted on CXL test suite).
5. Build an API to trigger automated email of each developer’s code development activity using P4 and Jira logs and also, an API to store real time SVDOC class references to milvus database for building SVDOC chatbot based on LLM retrieval augmented generation (RAG).
6. ML driven automated HVP migration deployed on DSI, MPHY, CPHY, Soundwire and ML driven spec migration piloted on LPDDR protocol this year.
7. Explored on different prompts on Synopsys ChatGPT GUI for identifying register entities via RAL automation on specification.
8. Helped in Display feature extraction from SP spec this year via extracting tables details from specification into csv.

Dr. Priya has demonstrated success at implementing or promoting Artificial Intelligence based smart EDA verification solutions and achieving a high level of success and competency. She has used her leadership skills to successfully implement or promote an AI technology via maintaining a great high team spirit. She is leading an artificial intelligence experts team with full of her ability to encourage and sponsor creative innovative automative solutions to solve for EDA challenges. She has also received Q2 2023 SDG award recognition which was based on nicely leading her team and publishing research papers and patent in various forms. She puts her loyalty and the passion for the betterment of her team-mates and stakeholders. As an example, Dr. Priya embraced verification group on a VIP tech day conference, capitalizing her ability to reach to diverse audiences with the valuable information on AI in verification opportunities. Her team also being recognized for smarter teamwork by the Manager on appreciation day.

Question 2: Contributes to Internal and external branding for Synopsys as an employer of choice

Nominee has showcased her leadership qualities through various Synopsys platforms and forums such as:

1. Nominee gave Influential talk at VIP tech day 2023, after being selected for presenting orally there. She very nicely demonstrated the ability to create and implement AI based solution for SNPS.
2. Dr. Priya Submitted Purple poster submission in 2023 and has initiated thread to develop artificial intelligence based automative solution in EDA. Nominee shared testimonial video towards AI automation final rounds of evaluation for the Global HRD awafor Synopsys South Asia as a stellar contributor for the region.
3. Submitted paper for review in Engineering leadership conference to be held in October this year. The idea was again to introduce automation into EDA and make the productivity faster.
4. Uploaded idea on One shark tank page.
5. Submitted one Patent for review that would be really useful to our customers and
6. Received Spot light SDG award Recognition for Q2-2023 across South aisa. This was to nicely leading the current project and publishing papers and patents in multiple forum

people

https://www.linkedin.com/in/chris-m-bryant/

https://www.linkedin.com/in/sayandey01/

https://www.linkedin.com/in/mishtu-mukherjee/

<https://www.linkedin.com/in/mitrasubrata/>

<https://www.linkedin.com/in/sachin-saxena-graphic-designer/>

<https://www.linkedin.com/in/darshnabanker/>

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<https://www.linkedin.com/in/abhishek-tiwari-phd-4333208a/>

<https://www.linkedin.com/in/dr-bharat-bhushan-2240434b/>

<https://www.linkedin.com/in/deepakgeorge7/>

very good

<https://www.linkedin.com/in/bhaskarjitsarmah/>

<https://www.linkedin.com/in/phani-karnati/>

jobs

Hi Dr. Sreya,

I hope you’re doing well! I’m interested in the role you posted: AI Trainer. Based on my experience as Senior Staff Machine Learning Engineer @ Synopsys Inc | Gen AI | RAG | LLM | LLM Agent | Ex: Vehant Tech., GE global research |, I believe I could be a good fit.

Are you open to a quick chat to discuss the position? I’d love to learn more about it, and share more about my own qualifications. I look forward to hearing from you.

Best regards,

Dr. Priya Aggarwal

Scientific / Technical Achievements of the Nominee, such as scientific/ technical publications, reports and presentations, patents, development of products, applications and systems, application of      facilities, services etc covering appropriate periods mentioned in description of that award. (*please limit to space provided).*

Nominee's three most important achievements and their engineering/social significance:

(i)              Prof. Anubha has contributed to the development of general parameterized Fourier transform (GP-FT) (published in IEEE TSP, Feb 2022) that is applicable to a much larger class of signals, some of which cannot be analyzed with FT and Laplace transform (LT). Unilateral Laplace transform is the special case of this GP-FT. GP-FT is also helpful in solving the initial value problems (IVPs). One interesting application of GP-FT is the computation of general parameterized moments, for the otherwise non-finite moments, of any random variable such as the Cauchy random variable. The exponential isomorphic mapping in GP-FT leads to a general parameterized version of Mellin transform, designated as Fourier scale transform (FST). Since Fourier theory is the backbone of almost all fields of engineering, this contribution is very significant.

(ii)             Anubha Gupta established connection between discrete cosine transform (DCT) and the discrete-time fractional Brownian motion process (dfBm) (Published in the *Journal of the Franklin Institute,* 2018). She proved theoretically that DCT basis acts as discrete Karhunen–Loève transform (DKLT) for these processes in the approximate sense. This result is of great practical significance in applications such as compression, compressive sensing based reconstruction, denoising, or inverse problems and also provides the reason for getting better compression and denoising results with DCT on a larger class of signals.

(iii)           Anubha Gupta has contributed significantly to the development of a 30-day mortality predictor (MERC model) for heart patients suffering with STEMI (ST-elevation myocardial infarction). This is first such model on the Indian cohort of 4000 patients. This AI model also has interpretability analysis that explains for every patient the inferences on his/her features leading to the prediction. This is being appreciated by medical doctors and can help in the proper care and treatment of patients leading to saving of many lives. The calculator is made available online at [https://merc.sbilab.iiitd.edu.in/](https://urldefense.com/v3/__https:/merc.sbilab.iiitd.edu.in/__;!!A4F2R9G_pg!ZUbJ4JrfszVCfF5_FawYppLqVwZ0HovJMINidKA_1htOBHWOp7bxU5Y_E3S6PtSQtUuygjML1lFVsbBhiT4$)

[(2) AI Trainer | BizInnovision Pvt Ltd | LinkedIn](https://www.linkedin.com/jobs/view/4229910791/?eBP=CwEAAAGXNWcnShJ4qrpgMI2KSeFKpla9q2Wih4xmVs9q4K3mMjoud-CtPkkDRmahFng6zBEE26Mkh3bZ_LvpkG5LS5BzXBhEwXyzv7FbXaZukGXC4JG60yJQ-AB1Kdx7bN86b7MCsqN24HCEOixFoJxTFJlJWv-nlYuSnaCspHthLbxYHbQBObWnK8ZrVI_juOLUvDZ1EezY57kBxpbbAcBk5fx_yEAfYZHgeIgUywzhobQH_GdFD6YtWRK7MUuhsSeK_b54xM3eMva5vdJkg_wQB5zDEzjPswM7cQGf4lzkxUdn9jXG7oPlRG4EK3v-h-VbaSwiV1Gi6vW3fq-gXl0rkltEMBdVKd3efL9vhNAK3USqpatGVGmpJ-PXSWtkLVJIP_LlZWfHD07xRSCLXu-Sd5P-NT5ARmldfd9QMQ2N_sc3U3vtpNl1SKOyPjPC9AMHwm7lxTsjjdko07cpnyaWBQGWbJGgUS2R6WRxL1Oc0FnjJhqcoxAz4Av0&refId=UWzo2fn5%2B68GeOaqZVr0pw%3D%3D&trackingId=pQLi%2F%2FS2Dpt7SHi5ORc%2B6Q%3D%3D) (in interview currently)

1. [LinkedIn](https://www.linkedin.com/jobs/view/4236208178/?eBP=CwEAAAGXNWcnSovc64pMzYzSRo1lVXzzDha6jjSBVKL7Yrxl95PLd5uOA6pMjgeF8XR2NnecmBca9--WNkOePIqYa5waMzCuk4UzIrv6tawonw4we71KfuvGpKvk5_8ErUXIVpJVtIUY_PSu_spjKrGMzdBU9_PGKJs7apf2C7vqM9wjBghddfY4azNw0OZMQbUDCM4hsqMt5e4XFl-DE3lns5wZ3-ixuwK88RmDNEA6t2PFBIcHLTeXhj56kjdO-I_DLzy0JJmYKkdhXnRulREPw40LKa7GqR6PECS2CyZ2fpbFIFxANcATYfaYxk9V2K4ajwl7fg8GWxjr2b-wscNvZ6m9B4_4CnOUOx1h5eivy9SeqFxxePdpJf61fBDU0iLthPJ2vcL1N9pDlrF7_xIXx28DqHF8jBuDLoy8Dqs5wJjwrIzpkKuB398Y1P5ZM2MSC1RQq3tijBjo0hkAo2AXkMiwWkuevruLUlsnbw29K9fr6jtC6FDkiSFGG7hihmMjCJ0QAoYVJHSw&refId=UWzo2fn5%2B68GeOaqZVr0pw%3D%3D&trackingId=klgqqvq5FfCs4eHgQYuf5Q%3D%3D&trk=flagship3_search_srp_jobs)
2. [Professor/PhD - AI Trainer | micro1 | LinkedIn](https://www.linkedin.com/jobs/view/4242891223/?eBP=NOT_ELIGIBLE_FOR_CHARGING&refId=UWzo2fn5%2B68GeOaqZVr0pw%3D%3D&trackingId=mBxcME%2FnJd3IiTlVJKmoCA%3D%3D&trk=flagship3_search_srp_jobs) (could not complete the test)
3. [LinkedIn](https://www.linkedin.com/jobs/view/4244014891/) (could not apply here) [Stepup Networks (SUN)](https://www.linkedin.com/company/stepupnetworks/life)

[LinkedIn](https://www.linkedin.com/jobs/view/4191892403/?eBP=CwEAAAGXOpp4d1Jw_dz5ajqj4jKFlRikuIpmidkzQ6XxuBNnNHdu4mgGkXp3n9SeCiumJ26eh6h6xM-fI9C1pMnc0t7Sl88mcj_pCdoHNg2vERYCtI3IqXBED68wBQcFTkvHtZEdPWNFtwAfS7huiFA7gV0WAX-mOmoRJMkUlEV3T5xFu7LuZpc_6FexDqGUDOpdKuUxjd-c-52oFxVRDWDbhkk4g8Fu4ls8trsvWpnh3SR1aarKz5F-cVyadSrM38UX4_tDlaG98c9_xbh1UZIyDi3Ead3YXkjuQVzOUCI3VBgDWB56A-yS7nwhYrxnecDaGqGWIyY-pQRmW_iHwKAB-SBrk9dfKV-QS6rlT1rBqtiuiXe1AtgXUTWFjFFKEYEQKlT8I9BhRz2X06g51R-XZ68O5dU4PIO8UVsOKs1txHmPuG2zN2pObQ7Qy843a7pMAXqwqbcC9y72eNnPHHOeptAArHRZfrc&refId=QwxBwF2peaRBN2LxUNouVA%3D%3D&trackingId=FCapw%2BSSRuT%2BbN9WBgjOvg%3D%3D&trk=flagship3_search_srp_jobs) ([Firstsource](https://www.linkedin.com/company/firstsource-solutions-limited/life" \t "_self))

[AI Mentor Talent Pool – Contractor Roles | Udacity | LinkedIn](https://www.linkedin.com/jobs/view/4112987110/?eBP=NOT_ELIGIBLE_FOR_CHARGING&refId=RVtq3v9e%2B%2BwUSUE586ysPg%3D%3D&trackingId=akHLVhdTs2rv4tLggtAZ8Q%3D%3D&trk=flagship3_search_srp_jobs)

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Please share your freelancing profile (Freelancer.com, Upwork, Fiverr etc) if any.

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[AI trainer Jobs | LinkedIn](https://www.linkedin.com/jobs/search/?currentJobId=4218012875&distance=25&geoId=102713980&keywords=AI%20trainer&origin=JOBS_HOME_SEARCH_CARDS)

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<https://www.linkedin.com/jobs/view/4240914069/?eBP=CwEAAAGXP6VQzS5wL6053AS191KNgWFeveNoMtg6BEa0P5nn48gMIIq7jQ0RxoVPhM9JNYESTn_30XX1NIQXn6NtNiFWzau9YMA7Sp5Z1PEi-rq9kj5FlVWDdr-ar6cUHbqmh_IYT_OpSqPsM9AFw1n9Oh99PCTOnc5Qi4MuGlyDyGZxoakTQTrq4yj-kulFz4StYHTbRntZup5eg31JpX_2OArHaXYm2mEnhYJl-q0-omAK4Dghnn0iEKkvaXXVRE-9ZMVTEWvWoZdq_ojmyxnma5OrZga3OJl8dFHCi-F_AwOz53PANAd80AkABPPbfgV2_97j6xRkRWznn_BE1-LDU0bmd45ZuanO_OTPcOvG5kc35y8P045Zi-UfFLn6zoiuZA79Ha1KYFhpin7OaVtlVATHBB9Zbjws5dRJ_30eLPJOO87Id1Ssf-Bf3CcFGiCnQDCk4tofsTOAN8kOxePLwrZfzpKBGTDpcqBllEdDO5Pl7JJM1VBcvzhLNs0cVwObGR-P92g48Q&refId=ny%2B%2FB629VqBsBBhtSE2zZg%3D%3D&trackingId=RPPKYVtK9HSI3yGAT6wZDg%3D%3D>

[Research Scientist (Freelancer) | Soul AI | LinkedIn](https://www.linkedin.com/jobs/view/4241400399/?eBP=BUDGET_EXHAUSTED_JOB&refId=ny%2B%2FB629VqBsBBhtSE2zZg%3D%3D&trackingId=n79TTW5l64tSeLSKC8RBhw%3D%3D&trk=flagship3_search_srp_jobs)

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[NLP and Python Expert on Contract - Remote | Zorba AI | LinkedIn](https://www.linkedin.com/jobs/view/4233347492/?eBP=NOT_ELIGIBLE_FOR_CHARGING&refId=g4lZvCOK%2BghIRiz2y1rzUA%3D%3D&trackingId=1KsMXzMoqVqdiOusLtjpnQ%3D%3D&trk=flagship3_search_srp_jobs)

12 june

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* Direct entry to Ph.D. based on excellent academic performance in M.Tech., IIIT-Delhi
* Published 20+ papers in top-tier Journals and International Conferences
* Visvesvaraya Ph.D. Scheme Fellow 2015-19
* Among best Doctoral Symposium, Visvesvaraya Ph.D. Scheme,

IIT-B, Mumbai, India (2016)

* Selected for Innovative Student Projects Award by INAE at Doctoral Level (2019)
* Adept in learning new tools and ability to work well in both team and individual

environments

* B.Tech: National Institute of Technology, Jalandhar (NITJ)
* Campus placed at Infosys

**1**

**Dr. Priya Aggarwal**

Synopsys Inc.

Finished thesis defense in April, 2019

PhD: Admitted in Jan., 2015

Google Scholar:-

Linkedin:- [(9) Dr. Priya Aggarwal | LinkedIn](https://www.linkedin.com/in/dr-priya-aggarwal-71b55b37/)

PhD degree:-

A close up of a certificate

Description automatically generated

M.Tech. degree:-

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Patent award notification: -

A screenshot of a computer

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Recipient of INAE award at Doctoral level 2019:-

A screenshot of a computer

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Among best Doctoral Symposium, Visvesvaraya Ph.D. Scheme, IIT-B, Mumbai, India (2016):-

*See snapshot below.*

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Recommendation from Dr. Anubha Gupta for NASI-Scopus-Young-Scientists-Awards-2019:- *attached pdf document separately for further perusal*