# VANSHIKA SHARMA

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## EDUCATION

- **M.Tech (Engineering Systems with Computer Science Specialization)** **Aug 2021 - May 2023**
  Dayalbagh Educational Institute, Agra — CGPA: 9.73/10
  *Focus:  Deep Learning and Explainable AI | Director's Honor List | Gold Medalist*

- **B.Tech (Electrical Engineering with Computer Science Specialization)** **May 2017 - Jun 2021**
  Dayalbagh Educational Institute, Agra — CGPA: 9.13/10

## WORK EXPERIENCE

**SCISPOT** **Oct 2023 - Mar 2024**
**Role: Full Stack Developer | Focus: Front End Development and A.I** **Kitchener, Canada *(Remote)***

- Developed Scibot, an AI assistant for Scispot's Lab OS, streamlining lab operations with an AI-driven chat interface, cutting manual errors by 95%, speeding up experiment setup by 90%, improving workflow automation and data access.
- Implemented NLP automation in Ask AI for lab data analysis, boosting workflow efficiency by 40%.
- Designed Scispot's Knowledge Graph (React.js, Neo4j, D3.js, LLMs, REST APIs), improving search efficiency by 70%.
- Built and deployed a React dashboard optimizing frontend for web/iPad to enhance UI/UX and performance.

**GENIUS INDIA PVT. LTD** **Apr 2020 - Aug 2020**
**Role: Summer Intern | Focus: Machine Learning and NLP** **Bangalore, India *(Remote)***

- Mastered Python and applied Machine Learning models to 6 hands-on mini projects, delivering tangible results.
- Contributed to 'Recruitize', developing an NLP-powered resume screening website to streamline hiring in a team of 5.

**IIT DELHI** **May 2019 - July 2019**
**Role: Research Intern | Focus: Image Processing and Cloud Computing** **New Delhi, India**

- Contributed to an Image Inpainting model with 90% accuracy improvement for restoration tasks and built a Sudoku app (ReactJS, HTML5, SQL) deployed on Heroku, as part of the 'Common Computing Infrastructure' project.

## KEY ACADEMIC PROJECTS

- **Master's Thesis: Explainable AI and Multimodal Deep Learning for Skin Lesion Classification**
  *Tech Stack: Python, TensorFlow, NumPy, Pandas, Matplotlib, OpenCV, LIME, SHAP.*
  Designed a multimodal deep learning model integrating CNN and transfer learning, achieving 91% accuracy. Incorporated explainable AI techniques for improved interpretability in medical diagnostics.
- **Additional Project:** *Developed an Angular-based Precision Dairy Farming System for real-time supervision.*

## TECHNICAL SKILLS

- **Programming Languages:**   Python, JavaScript, C++,
- **AI/ML Technologies:**   TensorFlow, PyTorch, LLMs
- **Web Development:**   HTML5, CSS, React.js, Next.js, Node.js, Angular, React Native, Django
- **Databases:**   MySQL, MongoDB, Neo4j
- **Cloud & DevOps:**   Amazon Web Services (AWS), Google Cloud Platform (GCP), Node.js, Git

## ACHIEVEMENTS

- Qualified GATE CSE (Feb 2025), UGC NET Computer Science Dec 2024 (99.54%),Cracked SBI SO Exam (Jan 2025).
- Secured 11th rank out of 14,000+ participants in AI Arena 2.0 by Mercer Mettl (March 2024).
- Selected for a Technical Student Exchange Program at the University of Sydney, Australia (June 2019).

## CERTIFICATIONS

- AI Fundamentals (DataCamp) - Certificate , Generative AI (Simplilearn) - Certificate

## POSITIONS OF RESPONSIBILITY

- Coordinated a Medical Camp (Apr 2022 - May 2023), leading biometric registrations and managing patient data.
- Represented B.Tech (2017-21) and M.Tech (2021-23) as Class Representative.
- Volunteered 240+ hours with NSS (Dec 2017), supporting community development.