



Vikas Sharma

Passport: W4458872 | **Work permit:** Indian | **Date of birth:** 05/08/2003 | **Place of birth:** Jaipur, India |

Nationality: Indian | **Phone number:** (+91) 9664003961 (Mobile) | **Email address:**

005sharma.vikas@gmail.com |

Address: 151A/G2 Anand Sagar, Krishna Sarovar, Mansarovar, 302020, Jaipur, India (Home)

WORK EXPERIENCE

 **BIZ4GROUP LLC – JAIPUR, INDIA**

AI RESEARCH ANALYST – 06/01/2025 – CURRENT

- Conducted extensive research in Artificial Intelligence (AI), Machine Learning (ML), and emerging technologies.
- Analyzed academic papers and industry publications to stay updated with state-of-the-art methodologies.
- Explored innovative algorithms and enhanced existing AI capabilities.
- Collaborated with cross-functional teams, including data scientists and engineers, for practical implementation.
- Curated high-quality datasets and supported data preprocessing with data engineers.
- Presented research findings to both technical and non-technical stakeholders.
- Actively participated in AI conferences, webinars, and forums to stay engaged with the global AI community.

 **IEEE CIS PIET – JAIPUR, INDIA**

CHAIRPERSON – 28/12/2023 – CURRENT

- Led the IEEE CIS Student Branch Chapter at Poornima Institute of Engineering & Technology.
- Organized events, workshops, and technical sessions to foster student engagement in AI/ML.
- Built partnerships with industry professionals to support networking and career growth.
- Implemented outreach initiatives focused on leveraging technology for social impact.
- Coordinated with IEEE leadership and members to execute strategic projects in computational intelligence.

 **RAJASTHAN CENTRE OF ADVANCED TECHNOLOGY – JAIPUR, INDIA**

ROBOTICS TRAINEE – 01/04/2024 – 30/09/2024

- Gained hands-on experience in robotics design, programming, and sensor integration.
- Worked on robotic cell design and pick-and-place automation using conveyor systems.
- Developed and coded multi-action service and commercial robots.
- Acquired knowledge in industrial welding, vision systems, and basic maintenance of robots.
- Built and tested automation systems for industrial applications.

 **MICROSOFT LEARN STUDENT AMBASSADORS – JAIPUR, INDIA**

MLSA – 01/01/2024 – 31/08/2024

- Organized technical events and community outreach programs.
- Mentored students in AI, cloud, and programming fundamentals.
- Developed strategies to grow the student developer community.
- Represented Microsoft in public forums, encouraging innovation and collaboration.

 **PIE-STAR INTERACTIVE STUDIOS – JAIPUR, INDIA**

FOUNDER & CTO – 01/01/2022 – 29/02/2024

- Founded a game and app development startup focused on modern graphics and smart utility applications.
- Led a team in designing, developing, and launching mobile apps and games.
- Oversaw strategic planning, product development, and daily operations.
- Managed financial planning, marketing, and client relations.
- Represented the company in industry meetings, conferences, and online platforms.

 **ZEETRON NETWORKS PVT. LTD. – JAIPUR, INDIA**

AI/ML INTERN – 01/07/2023 – 30/09/2023

- Built and deployed machine learning models using Python.
- Gained experience in NLP, data visualization, and statistical foundations.
- Applied ML techniques to real-world datasets.
- Enhanced understanding of text processing and data pipelines.

- Wrote tutorials, coding examples, and technical articles on programming and CS concepts.
- Simplified complex topics for student and beginner audiences.
- Ensured SEO optimization and editorial consistency.
- Responded to reader comments and community interactions.

● EDUCATION AND TRAINING

19/11/2021 – 31/05/2025 Jaipur, India

BACHELOR OF TECHNOLOGY (B.TECH) IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE Poornima Institute of Engineering & Technology

Completed a comprehensive curriculum including core subjects such as:

- Artificial Intelligence
- Machine Learning (Supervised/Unsupervised/Deep Learning)
- Natural Language Processing (NLP)
- Data Mining, Big Data Analytics, and Statistical Analysis
- Programming in Python, C++, Java
- Cloud Computing, Computer Vision, and Data Structures & Algorithms

Engaged in multiple applied projects involving:

- Real-time ML model deployment
- Robotic automation systems using sensor networks
- NLP tools and custom datasets
- Game and app development using modern tech stacks

Held leadership positions including:

- Chair of IEEE CIS Student Chapter – led workshops and student tech events
- Secretary at AICTE IDEA Lab – managed innovation lab administration and strategy
- Alpha & Beta Microsoft Learn Student Ambassador – conducted outreach and mentoring

Participated in:

- AI/ML-focused conferences, hackathons, and webinars
- Community-led projects emphasizing societal impact using AI (e.g., gesture-based AAC device)
- Cross-functional teamwork involving data engineers, scientists, and developers

Contributed to research and innovation through:

- A published patent in gesture-driven speech interfaces for speech-impaired individuals
- Open-source contributions and published articles on platforms like GeeksforGeeks and Medium
- Publication of a machine learning utility library: **Lazy Predict in Python**

Website www.poornima.org | Level in EQF EQF level 6

01/08/2020 – 31/08/2021 Jaipur, India

SENIOR SECONDARY EXAMINATION (MATHEMATICS AND COMPUTER SCIENCE) Tagore International School (CBSE)

Followed a CBSE curriculum with a strong academic focus on:

- **Mathematics:** Algebra, Calculus, Probability & Statistics, Coordinate Geometry
- **Computer Science:** Data Structures, Programming in Python/C++, Basics of Databases and Networking
- **Physics:** Mechanics, Electromagnetism, Thermodynamics, and Modern Physics
- **English:** Academic writing, communication skills, and comprehension

Developed a keen interest in computational thinking and logical reasoning through:

- Coding exercises, flowchart-based problem solving, and algorithmic design

Completed independent learning projects outside the curriculum, such as:

- Creating small utilities and calculators in Python
- Exploring basic ML concepts through online tutorials and practice platforms (like GeeksforGeeks and HackerRank)

Took initiative in peer learning:

- Assisted classmates in debugging code and explaining difficult mathematical concepts

Website www.tagoreint.com | Level in EQF EQF level 4

01/07/2018 – 30/06/2019 Alwar, India

SECONDARY EXAMINATION National Academy English Medium Sen Sec School

Completed a well-rounded secondary education based on the CBSE curriculum, with core subjects including:

- **Mathematics:** Introduction to algebra, geometry, trigonometry, mensuration, and statistics
- **Science:** Fundamentals of physics (motion, force, energy), chemistry (elements, compounds, reactions), and biology (life processes, environment, heredity)
- **Social Studies:** Indian history, democratic politics, geography, and economics
- **Languages:** Proficient in English and Hindi – developed reading comprehension, grammar, and writing skills

Developed a strong academic foundation that later supported advanced studies in computer science and AI.

Participated in school-level science exhibitions and quiz competitions, showcasing early interest in technology and logical reasoning.

Demonstrated early initiative in technology by:

- Learning basic computer applications and introductory programming (e.g., LOGO, QBASIC, MS Office tools)
- Exploring online educational platforms and developing curiosity in robotics and automation

Received positive academic recognition and consistently performed in the top percentile of the class.

Website <http://www.nationalacademyedu.com/> | Level in EQF EQF level 2

SKILLS

Python (computer programming) | R | Microsoft Office | Natural Language Processing | Robotics | Engineering Principles | Artificial Neural Networks | Machine Learning | Data Mining | Deep Learning | Artificial Intelligence | Cloud Monitoring and Reporting | Linux | Docker | Deep Neural Networks | C++ | Prompt Engineering | Oracle Database | MySQL

LANGUAGE SKILLS

Mother tongue(s): HINDI

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

24/03/2025 – 16/04/2025

AI Bot Detection and Monetization

Developed an AI-powered system to detect and mitigate bot traffic on digital platforms, enhancing user engagement and monetization opportunities. The system employs advanced machine learning algorithms to identify suspicious activities and differentiate between human and bot interactions. By accurately detecting bots, the platform ensures that advertising revenues are attributed to genuine user engagements, thereby optimizing monetization strategies.

Tech Stack:

- **Programming Languages:** Python
- **Libraries & Frameworks:** TensorFlow, Scikit-learn, Pandas
- **Machine Learning Techniques:** Deep Neural Networks, Random Forest Classifier
- **Data Processing:** Pandas, NumPy
- **Deployment:** Docker, Flask

08/08/2023 – 17/09/2023

Realtime HealthCare Analytics

Developed a real-time healthcare analytics platform to monitor patient vitals such as heart rate, body temperature, blood pressure, and blood sugar levels. The system utilized **aiokafka** and **asyncio** for real-time data streaming, providing healthcare professionals with actionable insights. An interactive dashboard visualized patient data, and an alert system notified users of critical conditions. Integrated with **Cassandra** for efficient data storage and retrieval.

Tech Stack:

- **Programming Languages:** Python, Shell Scripting
- **Frameworks & Libraries:** aioKafka, asyncio
- **Database:** Cassandra
- **Tools:** Docker, Docker Compose

11/04/2022 – 03/05/2022

Realtime Simulation of Self-Driven Car Training

Developed a self-driving car prototype using **AI** and **machine learning** algorithms for autonomous navigation. Integrated **computer vision**, **path planning**, and **sensor fusion** techniques to enable the vehicle to perceive its environment and make driving decisions without human intervention.

Tech Stack:

- **Programming Languages:** Python, C++
- **Libraries & Frameworks:** OpenCV, TensorFlow

VOLUNTEERING

19/04/2023 – 20/04/2023 India

Mentor - Hack IT Sapiens

I mentored participants in the Hack IT Sapiens event, providing guidance on technical challenges and helping them develop solutions in coding and problem-solving. My role involved offering both technical and strategic assistance to ensure that participants could successfully complete their projects and showcase their skills in the competition.

22/12/2022 – 23/12/2022

Mentor - Shooting Stars Foundation

In this role, I mentored students in hackathons, guiding them through technical concepts and project execution. I worked closely with students on their coding, robotics, and web development projects, and collaborated with other mentors to create effective learning activities.

08/08/2022 – 15/12/2022 Jaipur

AICTE PIET IDEA Lab Secretary

As Secretary, I managed all administrative and operational tasks for the AICTE IDEA Lab, ensuring smooth day-to-day functioning. My responsibilities included event organization, budget management, and providing support to leadership in project implementation.

CERTIFICATES

01/03/2023 – 15/05/2023

Machine Learning Rock Star – the End-to-End Practice (Specialization)

Successfully completed a comprehensive non-credit specialization covering rare and high-impact machine learning skills across three key courses:

1. **The Power of Machine Learning: Boost Business, Accumulate Clicks, Fight Fraud, and Deny Deadbeats** – Focused on practical ML use cases in marketing, finance, and risk mitigation.
2. **Launching Machine Learning: Delivering Operational Success with Gold Standard ML Leadership** – Explored leadership and strategic implementation of ML in organizational settings.
3. **Machine Learning Under the Hood: The Technical Tips, Tricks, and Pitfalls** – Covered technical aspects such as model tuning, data pitfalls, debugging, and responsible AI deployment.

Link <https://coursera.org/share/a89eef997133cae0c73c2afbccc5b983>

24/12/2022 – 02/01/2023

Applied Data Science with Python - Level 2

Completed an advanced-level course focused on practical applications of data science using Python. Gained hands-on experience with data wrangling, exploratory data analysis (EDA), and model development using real-world datasets. Utilized powerful Python libraries such as Pandas, NumPy, Matplotlib, Seaborn, and Scikit-learn to perform data cleaning, create insightful visualizations, and build predictive machine learning models. Demonstrated proficiency in pipeline automation, feature selection, model evaluation, and performance optimization. This course strengthened end-to-end data science capabilities necessary for professional analytical roles.

Link https://www.credly.com/badges/8feea52d-53a1-4fbb-b2b2-6516d74cde74/public_url

15/12/2022 – 30/12/2022

Containers, Kubernetes, and Istio on IBM Cloud

Completed a comprehensive course on containerization and microservices architecture using IBM Cloud technologies. Developed practical expertise in deploying, managing, and scaling containerized applications using **Docker** and **Kubernetes**. Gained in-depth knowledge of Kubernetes concepts such as pods, deployments, services, ingress controllers, and persistent storage. Additionally, worked with **Istio**, a powerful service mesh, to manage traffic, enforce security policies, and monitor service-to-service communications. This course equipped me with essential cloud-native skills for DevOps and cloud engineering roles, including CI/CD integration, container orchestration, and secure, scalable microservices deployment.

Link https://www.credly.com/badges/f57c095a-b9d9-4d69-83be-ebf13a8bc43a/public_url

HONOURS AND AWARDS

06/11/2024

UDHBHAV-2024 Software Project Winner – Poornima Institute of Engineering & Technology (PIET), Jaipur

Awarded 1st place in the **Software category** at the prestigious **UDHBHAV-2024 National Level Project Exhibition**. The award was given in recognition of the innovative and highly functional software project developed, which displayed outstanding technical skills, creative problem-solving, and practical application of advanced concepts. This achievement highlights a strong ability to work under pressure and deliver impactful solutions. The competition was part of a national-level exhibition that included top-tier participants from various institutions across India.

02/10/2024

Outstanding Contribution Award – Poornima Institute of Engineering & Technology (PIET), Jaipur

Awarded the **Outstanding Contribution Award** during the **Kalanidhi Annual Award Ceremony** for making significant contributions to academic excellence, leadership, and project development at **Poornima Institute of Engineering & Technology**. The award recognized efforts in spearheading high-impact projects and excelling in both collaborative and individual academic environments. It also acknowledged the ability to integrate theoretical learning with practical solutions, fostering an environment of innovation and excellence at PIET. Along with the title, a financial award was presented in recognition of the achievements.

Secured **2nd position** in the **Software category** at the **UDHBHAV-2023 National Level Project Exhibition**. The award was presented for developing a software project that exhibited not only strong technical expertise but also an exceptional level of innovation and problem-solving abilities. This recognition came from a panel of industry experts and academics, reinforcing the quality and feasibility of the project in real-world applications. The competition attracted participation from numerous institutions across the country, highlighting the excellence of the project in a highly competitive environment.

● **HOBBIES AND INTERESTS**

Reading and Research, Swimming, Writing Poetry

I have a diverse set of hobbies and interests that contribute to both my personal and professional development. I am deeply passionate about **reading and research**, particularly in the fields of technology, AI, and Machine Learning, which allows me to stay up-to-date with the latest trends and innovations. I am also a **state-level swimmer**, and swimming is an activity that not only helps me maintain physical fitness but also provides mental clarity and relaxation. Additionally, I enjoy **writing poetry**, a creative outlet that allows me to express my thoughts, emotions, and reflections. These activities help me stay balanced, motivated, and intellectually engaged.