Krishiv Mahajan

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EDUCATION

Sat Paul Mittal School, Ludhiana   *April 2021- April 2025*

Indian Certificate of Secondary Education (ICSE): Grade 9 &10
Indian School Certificate (ISC): Grade 11 & 12

- **Grade 9**: 95.6% | **Grade 10**: 97.4%| **Grade 11**: 87.8% | **Grade 12**: 96.4%
- **Relevant Coursework:** Physics, Mathematics, Economics, English, Computer Science
- **SAT Score**: 1500 (Math 790, English 710)
- **IELTS Score:** 8.0 (Listening - 8.5, Reading- 8.5, Writing - 7.5, Speaking - 8.0)

MEDIA COVERAGE

- **The Tribune:** Article: "17-year-old innovator from Ludhiana leads breakthroughs in AI and Biomedical Technology"
- **Indian Express:** Class XII - Subject Topper for Computer Applications, scoring overall above 95%
- **The Tribune:** Class X - Subject Topper for Computer Applications, scoring overall above 95%

PROFESSIONAL EXPERIENCE

Biomedical Research Assistant, RadioIQ, Meril Life Sciences   **April 2025- Present**

- Developed an AI model to check lung X-rays for Tuberculosis, conducting the trial phase of the project aimed at helping/ assisting TB patients in Ludhiana.
- Collaborated with Dr Rajesh Mahajan at DMC Hospital and Dr Sushil Gupta at Fortis Hospital in Ludhiana to conduct the trial phase of the project.
- Working on the integration of AI-based tools in the existing clinical workflows to help in disease detection and monitoring.
- Contributing to cost-effective healthcare solutions, reducing diagnostic delays and improving patient outcomes.

Biomedical Research Assistant, TraumaAI, Meril Life Sciences   *April 2025- Present*

- Assisting in the development of an AI model to recommend sizes for screws and plates for fractures.
- Collaborated with Fortis Hospital Ludhiana to collect X-ray dataset of over 50,000 images and annotated clinical data for the development of models.
- Collaborating with the AI team to learn about the data annotation, model development and design.

ENTREPRENEURSHIP EXPERIENCE

Founder, ThromboCount   *October 2023-Present*

- Redeveloping an AI model to count the number of platelets from images of blood slides, addressing limitations in existing haematology analyzers, especially in resource-constrained areas with limited access to trained pathologists.
- Currently under development in collaboration with NUVO AI, an AI wing of Meril Life Sciences.
- The idea was patented by the Indian Patent Office.
- Awarded a Letter of Commendation from Dr. Monica Gulati, Executive Dean, Lovely Professional University.

Founder, CutiCure   *August 2023-Present*
- Developed an AI-powered platform for early detection of nail diseases and provided it to 5 dermatologists in the private and public sectors in Ludhiana, Punjab to test the model's accuracy.
- Achieved an accuracy of 98.8% overall and 100% in diseases like Acral Lentiginous Melanoma, Blue Finger, Clubbing, and Terry's Nails.
- Developed a web app to host the AI model and hosted it on Streamlit.
- Awarded the Most Admired CutiCure- The Innovative Healthcare Solution by Dr. Baljit Kaur, Cabinet Minister for Women and Child Development, Government of Punjab.
- Awarded a Letter of Commendation from Dr. Kapil Dua, Former President, of the International Society of Hair Restoration Surgery.

Founder, BULAAO   *June 2022-Present*
- Developed a website connecting elderly patients with physiotherapy services by trained physiotherapists in 6 cities - (Ludhiana, Amritsar, Pathankot, Jalandhar, Patiala, and Bhatinda), in Punjab, India.
- Onboarded 50 professional physiotherapists for pre and post-operative care for elderly patients.
- Increased the scope of business by enhancing yearly patient visits from 1500 to 4000 over 2 years.
- Awarded the Most Admired Child in Innovation and Entrepreneurship in the presence of Smt. Savitri Thakur, Minister of Child and Welfare Development, Minister of State, Government of India.
- Awarded the Most Admired MedTech Start-Up in 2022 by Shri Chetan Singh Jauramajra, Minister of Health and Family Welfare, Government of Punjab.
- Awarded a Letter of Appreciation from Shri Jai Singh Rouri, Deputy Speaker, Punjab Legislative Assembly, Government of Punjab.

RESEARCH EXPERIENCE

Published Researcher   *February 2024- July 2024*

Transforming Financial Decision-Making with Artificial Intelligence: A Comprehensive Study on AI-Driven Algorithms for Investment, Trading, and Portfolio Management
- Conducted a comprehensive analysis of AI models like Random Forest, Gradient Boosting Machines, CNNs, and RNNs for their effectiveness in optimizing financial decision-making and minimizing risks.
- Addressed ethical implications, including the 'black box' issue, emphasizing model selection based on specific use cases in finance.
- Highlighted how AI can transform financial industries by enabling faster, data-driven decisions and reducing manual intervention, thus potentially leading to increased profitability
- Published in the Journal of Electrical Systems (JES) under Scopus.

Published Researcher   *June 2024- Aug 2024*

Artificial Intelligence in Dermatology: Improving Diagnostic Accuracy in Nail Disorders Through Deep Learning Algorithms
- Leveraged deep learning algorithms, such as YOLO and Roboflow, to train AI models for identifying nail disorders with high accuracy, minimizing diagnostic errors.
- Achieved high diagnostic accuracy rates, demonstrating that AI could detect conditions earlier and more reliably than traditional methods, particularly in underserved areas with limited access to dermatologists.
- Published in the International Journal of Computer Trends and Technology (IJCTT).
- Presented at the INNOSPHERE Conference,2024.

INTERNSHIPS

Research Intern, Meril Life Sciences, Vapi   *April 2025-Present*
- Gained an understanding of the core pillars of a biomedical firm- R&D, manufacturing, clinical trials, & regulatory compliance.
- Took a tour of the orthopaedic implant factory, observing how robotic manufacturing saves time and cost involved.
- Gained a comprehensive understanding of the effort required to develop heart valves and stents.
- Engaged with NUVOAI, AI vertical of Meril, and talked to teams from IIT Kanpur, IIT Madras and Bangalore.
- Developing ThromboOCunt with NUVOAI.
- Received a Letter of Recommendation from Dr. Bhaumik Dave, Head of NUVO AI Department.

Intern, Fortis, Shalimar Bagh, New Delhi   *June 2024 - July 2024*
- Interned under Mr. Deepak Narang, Facility Director, Fortis Shalimar Bagh.
- Gained a comprehensive understanding of hospital administration and finances while observing the real-world application of robotic systems in surgery.
- Observed surgical procedures, including laparoscopic cholecystectomy, to understand the applicability and benefits of robotic systems in patient care.
- Collaborated with the finance team to analyze the economic feasibility of robotic surgeries, assessing cost-effectiveness and potential savings from improved clinical outcomes.
- Awarded a Letter of Recommendation from Mr. Deepak Narang, Facility Director, Fortis Shalimar Bagh.

Research Intern, Baba Farid University of Health Sciences, Faridkot   *April 2024-May 2024*
- Research Intern under Dr. Jaspreet Vij, Associate Professor.
- Prepared the questionnaire for Quality of Life and Motor Function in Children with Spina Bifida and Hydrocephalus: Impact on Family Functioning in Indian Rural Population and circulated it.
- Co-author in Quality of Life and Motor Function in Children with Spina Bifida and Hydrocephalus: Impact on Family Functioning in Indian Rural Population, which examines the relationship between motor function and quality of life in children, highlighting the challenges faced by rural families and offers insights into improving their overall well-being.
- Published in the International Journal for Multidisciplinary Research (IJFMR).

Intern, Hackershala, Noida   *June 2023 - July 2023*
- Acquired skills in penetration testing, vulnerability assessment, and network security, applying these techniques to safeguard systems from potential threats.
- Developed a strong foundation in cybersecurity practices that are applicable in IT security, cyber defense, and penetration testing, particularly valuable in data-sensitive industries like healthcare, finance, and e-commerce.

COMMUNITY ENGAGEMENT

Founder, Saarthi_aks   **April 2021- Present**
- Initiated a community-driven not-for-profit initiative that aimed to help COVID patients by arranging home-cooked food, and medical kits for them.
- Coordinated meal preparation and distribution for over 400 families, ensuring reliable access to nutritious food during isolation periods.

- Expanded services to offer at-home blood tests and medical kits, addressing immediate healthcare needs and supporting early detection of COVID-19 symptoms.
- Collaborated with local healthcare providers from 2 institutions to offer essential supplies like blood tests, aiming to fill critical gaps in community support during the pandemic.
- Revamped Saarthi to help the flood victims of Punjab during the 2025 floods.

Volunteer, Zindagi Live Foundation, Ludhiana   June *2021-Present*
- Contributed to the Zindagi Live Foundation's mission of supporting children affected by Thalassemia through organizing and facilitating blood donation camps.
- Worked as a volunteer with the Zindagi Live Foundation to organize blood donation camps and raise awareness for donating blood.
- Assisted in the planning and coordination of blood drives, ensuring smooth operations and a safe environment for donors and recipients.
- Engaged in community outreach to raise awareness about Thalassemia and the importance of regular blood donations, encouraging greater participation from local volunteers.

Volunteer, Have A Heart Foundation, Ludhiana   January *2021- January 2022*
- Worked as a volunteer and supported the foundation's mission of funding surgeries for children with congenital heart disorders by assisting with patient outreach and fundraising activities.
- Learned the foundation's process for verifying patient backgrounds and assessing eligibility, ensuring that funds reached those in genuine need.
- Actively participated in fundraising efforts, helping to secure resources for life-saving surgeries and raising community awareness of congenital heart disorders.

Founder, Cause_For_Paws   *September 2021 - October 2021*
- Initiated a project to develop an app that allows individuals to request emergency assistance for injured stray dogs and cats, aiming to improve animal welfare and provide timely help for animals in need.
- Designed the app concept to enable users to send a request and upload a photo, alerting nearby animal ambulances or volunteers to respond quickly to injured strays.

ACADEMIC HONORS & AWARDS

- Awarded Merit Certificate for being in the top 5% of the batch in Grade 9, Grade 10, Grade 11, and Grade 12.
- Nominated for INSPIRE SHE scholarship for Higher Education for being the top 1% in Grade 12.
- Secured scholarship for Academic Excellence in the Grade 10 Indian Board Examination (ICSE). (2023)
- Awarded a Letter of Appreciation from Shri Sanjeev Arora, Cabinet Minister of Industry & Commerce, Investment Promotion, Power, and NRI Affairs for my work in Biomedical field.
- Awarded the Most Admired MedTech Start-Up in 2022 by Shri Chetan Singh Jauramajra, Minister of Health and Family Welfare, Government of Punjab. (2022)
- Awarded a Letter of Appreciation from Shri Jai Singh Rouri, Deputy Speaker, Punjab Legislative Assembly, Government of Punjab. (2024)
- Awarded the Most Admired Child in Innovation and Entrepreneurship in the presence of Smt. Savitri Thakur, Minister of Child and Welfare Development, Minister of State, Government of India. (2024)
- Awarded the Most Admired CutiCure- The Innovative Healthcare Solution by Dr. Baljit Kaur, Cabinet Minister for Women and Child Development, Government of Punjab. (2024)

- Awarded a Letter of Commendation from Dr. Kapil Dua, Former President, of the International Society of Hair Restoration Surgery. (2025)
- Awarded a Letter of Commendation from Dr. Monica Gulati, Executive Dean, Lovely Professional University. (2024)
- Achieved a Black Belt in Karate by the Goju Ryu Okinawakan Karate Do Kyokai Association. (2022)

EXTRACURRICULAR ACTIVITIES

Founder and President, AI Club   *May 2024 - April 2025*
- President of the AI Club in School and managed 15 students.
- Organized classes to teach the students Python and Java.
- Learned valuable leadership and team-management skills while guiding members through the exploration of AI technologies.
- Learned how to encourage creativity and explain concepts while explaining the use of AI in real-world scenarios.

Athletics   *October 2023- April 2025*
- Won the first prize in the 4X100m Relay Race in 2023.
- Won the third prize in the 100m Race in 2024.
- Won the first prize in the 4X100m Relay Race in 2024.
- Won the second prize in the 400m Race in 2024.

Sports: Football   *May 2022- April 2025*
- Captain of the school Football Team in 2023 and 2024.
- Achieved second place in the Ludhiana District Football Championship in 2022.
- Achieved first place in the ASISC Zonal Football Tournament in 2022.
- Won first place in the ASISC Regional Football Tournament in 2023.
- Won the Alumni Sports Meet held in our school.

Public Speaking   *August 2022- September 2023*
- **Debate:** Achieved second place in the ASISC Regional Debate Competition.
- **Speaker:** Spoke the Annual Report in the Annual Function.

Karate, Goju Ryu Okinawakan Karate Do Kyokai India   *March 2014-Present*
- Earned a black belt in karate, which is its topmost level.
- Achieved Gold in the 7th Kyo Rin State Karate Championship in the Kata and Kumite event in 2021.
- Won Gold in the 10th Inter School National Karate Championship in the Kata and Kumite in 2021.
- Hosted a belt test in Ludhiana.
- Mentoring 9 orphaned students in Ludhiana to teach them the fundamentals of Karate.

Music: *Feb 2016 - Present*
- **Keyboard:** Grade 2 Keyboard player; received Distinction from Trinity College London.
- **Guitar:** Grade 2 Guitar player; received Certificate of Distinction from Trinity College London.
- **Vocal Music:** Playing the Harmonium along with singing since 2022.

SKILLS AND CERTIFICATIONS

- **Languages**: Proficient in English, Hindi, Punjabi.
- **Technical**: Proficient in Java, Javascript, YOLO, and Roboflow

- **Project Management**: Strong leadership and strategic planning skills, demonstrated through various initiatives.
- **Certifications:** Ethical Hacking on Udemy(*June 2021),* Coding Lessons on WhiteHatJr (*April 2020-April 2021),* Navigating the English Language (*June 2021-July 2021)*