

# KRISHIV MAHAJAN

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## EDUCATION

**Sat Paul Mittal School**, Ludhiana – Grades 9,10,11 and 12 2021-Present  
**Relevant Coursework:** Physics, Mathematics, Economics, English, Computer Science

**Sacred Heart Convent School**, Sarabha Nagar, Ludhiana 2011-2021

## STANDARDIZED TESTING

- **SAT- 1500 (790 Math, 710 English)**
- **IELTS - 8.0** (Listening - 8.5, Reading- 8.5, Writing - 7.5, Speaking - 8.0)

## ACADEMIC HONORS & AWARDS

- **Awarded Merit Certificate for being in the top 5% of the batch in Grade 9, Grade 10, and Grade 11.**
- **[Secured scholarship for Academic Excellence in the Grade 10 Indian Board Examination \(ICSE\). \(2023\)](#)**
- **[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. (2024)**
- **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. \(2022\)](#)**

## INNOVATIONS

### Founder, BULAAO

2022-Present

- Developed a website **connecting elderly patients with physiotherapy services** by trained physiotherapists **in 5 cities** - (Ludhiana, Pathankot, Jalandhar, Patiala, and Bhatinda), in Punjab, India.
- Onboarded **40 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.](#)**

### Founder, CutiCure

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, ThromboCount

**2023-Present**

- Developing 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 the **College of Pharmaceutical Sciences and Innovation Lab of Lovely Professional University.**
- The idea was patented by the **Indian Patent Office.**
- Awarded a **Letter of Commendation** from Dr. Monica Gulati, **Executive Dean, Lovely Professional University.**

### RESEARCH

#### [Independent Published Researcher, 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.**

#### [Independent Published Researcher, 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

#### **Intern, Hackershala, Noida**

**Summer 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.

#### **Intern, Fortis, Shalimar Bagh, New Delhi**

**Summer 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)**.

## COMMUNITY ENGAGEMENT

[Founder, Saarthi aks](#)

**2020-2021**

- 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.

**Volunteer, Have A Heart Foundation, Ludhiana**

**2021-2022**

- 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.

[Volunteer, Zindagi Live Foundation, Ludhiana](#)

**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.

**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.

## EXTRACURRICULARS

### **Karate, Goju Ryu Okinawakan Karate Do Kyokai India**

**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.

### **Founder and President, AI Club**

**2024**

- **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.

### **Debate**

**2022**

- [Achieved second place in the ASISC Regional Debate Competition.](#)

### **Speaker**

**2023**

- [Spoke the Annual Report in the Annual Function.](#)

### **Music**

**2016-2018**

#### **Keyboard**

- **Grade 2** Keyboard player; received **Certificate of Distinction from Trinity College London**.

#### **Guitar**

**2021-Present**

- **Grade 2** Guitar player; received **Certificate of Distinction from Trinity College London**.

#### **Vocal Music**

- Playing **Harmonium** along with **singing** since 2022.

### **Sports**

#### **Football**

**2022-Present**

- **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.](#)

#### **Athletics**

**2023-Present**

- [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.](#)

## Online Courses

- [Ethical Hacking on Udemy](#)
- [Coding Lessons on WhiteHatJr](#)

**2021**

**2020-2021**

- [Navigating the English Language](#)

June 2021-July 2021

### **SKILLS**

- Proficient in English, Hindi, and Punjabi.
- Proficient in Java and Javascript.
- Proficient in YOLO, Roboflow, and Google AutoML Vision.