

Research Interest and Career Goal

Research Interests

Ridwan's research interests lie at the intersection of **computer vision**, **chemistry**, and **business automation**. He is particularly fascinated by how machines can interpret visual information and transform it into meaningful insights that support real-world decision-making.

His applied research focus includes:

- **Computer Vision:**
Exploring image recognition, object detection, and visual intelligence systems that can understand and interpret the world the way humans do.
- **AI in Chemistry:**
Leveraging machine learning and vision-based models to support chemical analysis, laboratory automation, and predictive modeling in scientific environments.
- **Business Automation:**
Building AI-driven systems that streamline workflows, reduce manual effort, and enhance operational efficiency across industries.

Ridwan prefers **applied research**, where theoretical concepts are transformed into practical solutions that solve real problems and create measurable impact.

Career Goal

Ridwan's long-term career goal is to become a highly skilled **AI Engineer**, specializing in building intelligent systems that improve decision-making and automate complex processes.

He aims to master the full lifecycle of AI development — from data processing and model training to deployment and optimization — with a strong emphasis on reliability, scalability, and real-world usefulness.

5–10 Year Vision

Within the next decade, Ridwan envisions himself as a **Lead AI Engineer**, responsible for designing and architecting large-scale AI platforms that power intelligent decision-support systems. He sees himself contributing to high-impact projects, mentoring junior engineers, and driving innovation within the organizations he serves.

Industry & Entrepreneurship Path

Ridwan plans to begin his journey in **industry**, gaining hands-on experience, building expertise, and contributing to meaningful AI solutions.

Later in his career, he intends to **launch his own startup**, focusing on AI-powered products that solve real problems in chemistry, automation, and intelligent systems.

Impact on Society

Ridwan is driven by the desire to create **positive impact** through technology. His goal is to build AI systems that:

- Improve decision-making
- Enhance productivity
- Support scientific discovery
- Empower businesses
- Make life easier for people

He believes that technology should uplift society, and he is committed to contributing solutions that are ethical, accessible, and beneficial to the world.