Ray Riyaz

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EDUCATION

University of Warwick — MMathPhys (Year 1) — 2025 – Present
Mathematics & Physics — *Coventry, UK*
- Selected Coursework: Real Analysis, Linear Algebra, ODEs, Modelling, Mechanics, Thermal Physics

India International School – CBSE Class XII (National Topper) — 2025
English, Maths, Physics, Chemistry, CS — *Tokyo, JP*
- Grade: 99%; High Honour Roll (Grades 9–12)
- Honours: Best Delegate (IMUN Japan 2024), Valedictorian 2025
- Digital SAT: 1540 (800 Math, 740 English); IELTS: 8.5/9

LEADERSHIP & ROLES

Treasurer — Warwick Marrow (Stem-Cell Register) — 2025 – Present
Anthony Nolan & University of Warwick — *Coventry, UK*
- Raised £1000+ in 3 months and Recruited 650+ students to the stem-cell register. (Platinum recognition 2025)

Course Representative & Physics Dept. Maths Rep — 2025 – Present
Staff Student Liaison Committee, University of Warwick — *Coventry, UK*
- Raised multiple module-level issues to academic staff and supported the implementation of improvements; improved transparency by collecting and sharing student feedback.

AISC Global Ambassador for Japan — 2025
Intel Corporation — *Hybrid*
- Led AI outreach and technical communications in Japanese schools, resulting in a 40-person Intel-affiliated hackathon; and mentored the winning team for Intel Global AI competition.

RESEARCH & PROJECTS

Mathematical Finance Article — Dynamic Cointegration — Present
- Developing a quant-model generalising static Engle–Granger method by applying Kalman Filter

AI Educational Video Generator — Transformers, OCR — 2024
- Developed OCR-to-video pipeline using multi-head attention; delivered 3 instructional sessions to 250+ students
- Won 1st in India AI Impact Festival 2024.

Disaster Search & Rescue Robot — Raspberry Pi, Sensors — 2024
- Engineered multi-sensor autonomous rover with real-time signals, optimized for Japan Earthquakes.
- Selected to present project at the Indian Embassy in Japan (top 5%)

School Management System — Python, Flask — 2024
- Implemented full-stack analytics interface with multi-user role segmentation and dynamic content delivery.
- Handed over finished project to a government school in Nepal.

Spatial Human Comfort Model — Applied Math — 2024
- Modeled n-dimensional human comfort integrating geometry and psychological response factors.

VOLUNTEERING

Food Provision Volunteer & Newcomer Guide — 2023 – 2025
Second Harvest Japan — *Tokyo, JP*
- Primary English-Japanese translator at Asakusabashi; Completed 75+ hours supporting warehouse and pantry sections

Community Development Volunteer — 2023 – 2025
HandsOnTokyo — *Tokyo, JP*
- Supported 30+ children with autism and intellectual disabilities through dance and motor-skills programs
- Operated LivesTokyo 2023 booth and publicised to 200+ people
- Improved Ukraine evaucees' English to A1 (AYUMO Project)

SKILLS

- **Programming:** Python, ML (TensorFlow, Pandas), Web-Dev (Full-Stack), IoT (RaspberryPi, Circuit Design)

- **Languages:** Japanese (N4/Conversational)