

AM AJNAS

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[🌐 ajnas.me](https://ajnas.me) [🐙 github.com/Nairo-op](https://github.com/Nairo-op) 📍 Pune, India

Research Interests: Computational Neuroscience, Mathematical Modeling, and Physics.

Objective: Physics and Biology undergraduate student with strong computational skills.

Seeking to apply expertise in Python, TensorFlow, and numerical modeling to simulate neural dynamics and complex biological systems.

🎓 EDUCATION AND ACHIEVEMENTS

Indian Institute of Science Education and Research (IISER), Pune 2024 – 2029 (Expected)
Bachelor of Science - Master of Science (BS-MS) in PHYSICS (Biology minor).

Higher Secondary (Kerala State Board) 2024
Score: 99.1%.

SSLC (Kerala State Board) 2022
Score: 10/10 GPA.

- **INSPIRE Fellow** (Department of Science & Technology, Govt. of India).
- **All India Rank 192** in IAT 2024.
- **NUMATS (SCERT Kerala) Member.**
- **USS Scholar.**

✂ TECHNICAL SKILLS

- **Languages & Libraries:** Python (NumPy, Matplotlib, Pandas, TensorFlow), \LaTeX .
- **Computation:** Numerical Modeling (Euler & RK4 Methods), GPU Acceleration (NVIDIA, CUDA).
- **Design & Web:** Frontend Web-Development and Graphic Designing.
- **Languages:** English (Fluent), Malayalam (Fluent), Hindi & Arabic (Reading, Writing).

🧪 PROJECTS & EXPERIENCE

Numerical Modeling of Dynamical Systems

- Simulating high-dimensional neural dynamics (LIF neurons, Hodgkin-Huxley).
- Optimized simulation performance by implementing GPU acceleration with TensorFlow, significantly reducing runtime for complex ODE systems.

Mentoring — CRISPR Learning Oct 2025 – Present

- Mentor for IAT aspirants, creating high-level mock tests and doubt solving (Physics & Mathematics).

IAT Textbook Authoring — CRISPR Learning July 2025 – Present

- Co-authoring two specialized IAT coaching textbooks (Mathematics & Physics).

🧠 INTELLECTUAL PURSUITS

- Deep engagement in reading and discussions regarding human nature, cognitive patterns, and social philosophy.
- Hosting Stress Management sessions for students writing Entrance Exams.
- **Calisthenics:** Bodyweight strength and conditioning.