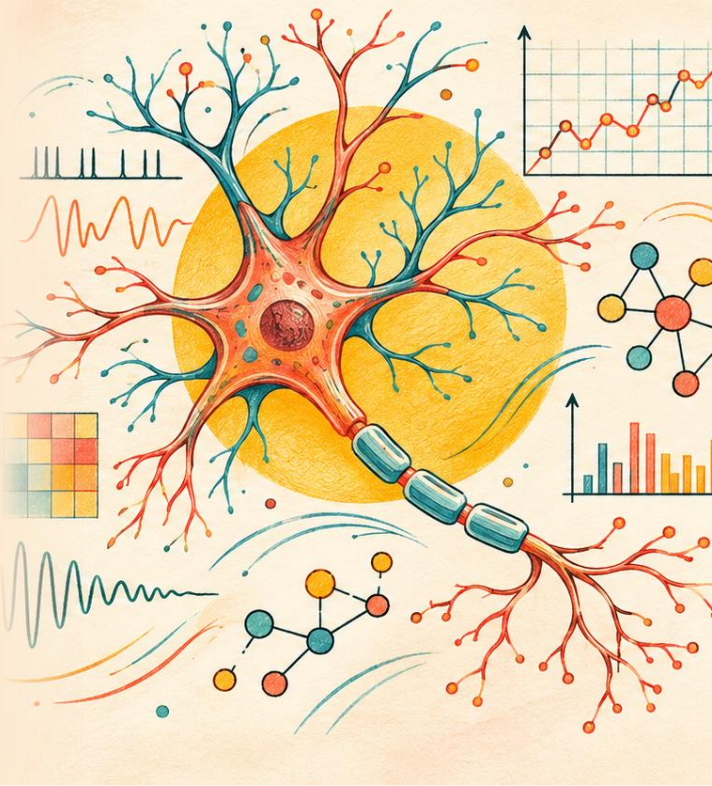
Young Computational Neuroscientist Program

Can you solve a mystery of the brain?

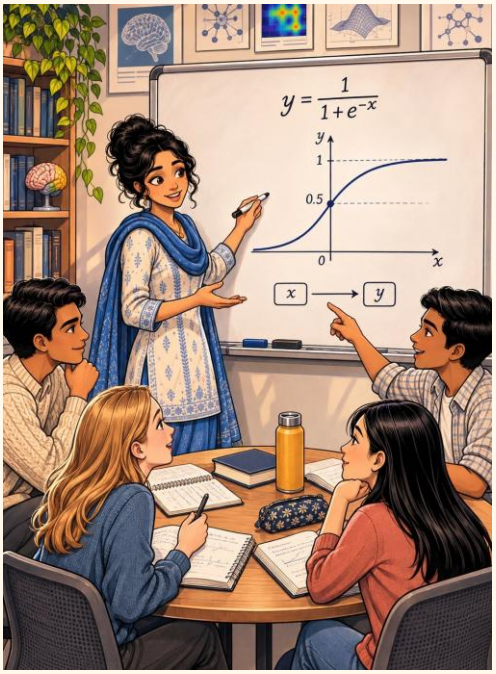
JANUARY–FEBRUARY 2027



WHO	FORMAT	DURATION	SESSIONS
Classes 9–12	**Live online**	**8 weeks**	**24 sessions**
Best fit: 9 and 11	Small mentored teams	Jan–Feb 2027	Live, three a week

From curiosity to research

How does the brain learn, remember or choose? Learn the science, build models in Python and test an idea of your own.



01 Build the foundations
Neurons, neural signalling, maths and Python.

02 Learn three ways to model the brain
Feedforward networks, attractor and recurrent networks, and reinforcement learning.

03 Solve a mystery with your team
Pick one of six research questions, build and test a model, then present it at a symposium.



LED BY

Prof. V. Srinivasa Chakravarthy
Director & Co-founder, Neurogati
Professor, Biotechnology, IIT Madras
Heads the Computational Neuroscience Lab and the Parkinson's Therapeutics Lab; 25+ years in neuroscience.

TRACK RECORD

Our school students have published at SfN

A student team from our 10-week research program published its work there.

RESEARCH PROJECT

Choose your mystery

In the final stage, small teams pick one of six open questions about the brain, build a model in Python and test their own hypothesis, with a Neurogati mentor guiding every step.



Feedforward networks Recognising what we see	**Modeling Stroke & Recovery** How does the brain relearn a skill after a stroke?	**Modeling Amblyopia** Why does the brain stop listening to one eye?
Attractor networks Memories and moods	**Modeling Epilepsy** How does a calm network suddenly tip into a seizure?	**Modeling the Brain's compass** How does the brain keep track of which way you're facing?
Reinforcement learning Learning to choose	**Hooked on Reels** Why do quick, unpredictable rewards keep us scrolling?	**Modeling ADHD** Could "restless" behaviour come from exploring too much?

Who it's for

Open to Classes 9–12. Python for brain modelling is taught as part of the program.

Classes 9 and 11

Best fit this term: no board exams in the way, so you can focus on your project.

IB students

Build the research skills behind a strong Extended Essay or IA.

JEE and NEET aspirants

Start early and explore where engineering meets medicine, through code.

WHAT YOU LEAVE WITH

- ✓ A working computational model you built
- ✓ Your findings, presented at a research symposium
- ✓ A certificate, awarded on your project and talk

Apply now

Applications close	**DECEMBER 15, 2026**
Classes begin	**JANUARY 02, 2027**
Fee, schedule and application	**neurovidya.neurogati.com**
Questions	**workshops@neurogati.com**

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