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THE PARTICLE THAT KEPT MOVING: A SWARM-EQUATION BIOGRAPHY OF SATISH GAJAWADA (IIT ROORKEE ALUMNUS). INERTIA, MEMORY, GUIDANCE AND WONDER IN FOURTEEN YEARS OF INDEPENDENT ARTIFICIAL-INTELLIGENCE RESEARCH

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ABSTRACT

Most biographies follow a life through time. This one follows a life through an equation. Satish Gajawada, an Integrated Dual Degree (B.Tech + M.Tech) graduate of the Indian Institute of Technology Roorkee (2012), has spent fourteen years as an independent researcher who gives names, structure and heart to ideas in artificial intelligence: Excellent AI (EAI), Very Highly Advanced AI (VHAAI), Out of the Box AI (OBAI), a society (ISVHAAI), a family of value-themed swarm algorithms, thirteen theories of human purpose, a 108-right taxonomy of human rights, and a lifelong "thesis" supervised by his parents and GOD. Reading the particle swarm update rule as a metaphor for a research life, this article identifies four forces (inertia, personal best, global best and exploration) and one outcome: a position update that, in 2026, turned decisively toward testing and open disclosure. Drawing on eight source documents, with each statement attributed to a published work, a manuscript or the subject's own account, we show that a reproducible genetic-algorithm and PSO experiment found a fairness weight that cut a demographic-parity gap from 0.121 to 0.016 for 1.9 points of accuracy, and a gentler weight that improved accuracy and fairness together. Itemised output rose from one entry in 2012 to twelve in 2026. We conclude that Gajawada is a builder of human-centred vocabulary and institutions, a grateful son, a joyful experimenter and a candid author, and that his life offers every learner a portable update rule: keep your direction, honour your best, listen to your guides, stay curious, and keep moving.

KEYWORDS: *biography; independent research; artificial intelligence; particle swarm optimisation; human-centred AI; value-aligned AI; lifelong learning; research motivation*

1 Prologue: A Life Written as an Equation

> *"I would like to thank everything in this universe which is trying to make this place a better place to live."* from Gajawada's earliest independent writings [7]

Biographies usually begin with a birth certificate and proceed in order: school, career, honours, legacy. The life of Satish Gajawada resists that order, and rewards a different one. His work is organised less by employers than by *names*: for fields, algorithms, a society, a personal philosophy and a family of propositions about why people act. Naming is the act of giving a new idea a home so that others can walk in. Few researchers have done it so often, so openly and so kindly.

This article therefore tells the story through a structure his own field supplies. Particle swarm optimisation (PSO), introduced by Kennedy and Eberhart [1] and refined with the inertia weight of Shi and Eberhart [2], moves a particle through a search space under four influences: its own momentum, the best place it has personally found, the best place the whole group has found, and a measure of randomness that keeps it exploring. Gajawada himself has described this very structure as resembling a child growing up inside a family and a community [9]. We take that invitation one step further and let the rule describe the researcher.

$$v(t+1) = w \cdot v(t) + c_1 r_1 (pbest - x) + c_2 r_2 (gbest - x)$$
$$x(t+1) = x(t) + v(t+1)$$

Read as biography, the first term is the *direction a life carries forward* (Section 3). The second is *the best of what one has built* (Section 4). The third is *the pull of guidance larger than oneself* (Section 5). The random coefficients are *wonder and serendipity* (Section 6). And the position update is *where the particle goes next*, which, in 2026, was toward testing, transparency and shared evidence (Section 7). Figure 1 gives the whole map at a glance.

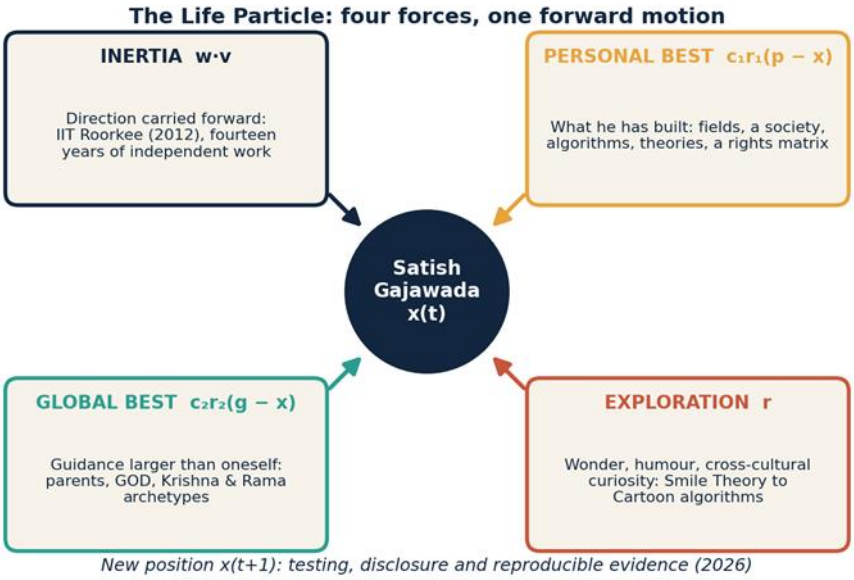


Figure 1. The Life Particle: the PSO update rule read as a map of a research life.

2 SOURCES AND APPROACH

This is a narrative-analytic biography built from eight documents: three articles published in the *International Journal of Philosophy, Ethics and Humanities* (IJPEH) in 2026, comprising an autobiographical story, a devotional essay and a conceptual-experimental framework [7–9]; four manuscripts, *Ten Plus Theories of Everything*, *The 108-Rights Matrix*, *Seven Names, One Life* and *From Naming to Testing* [11–13, 17]; the subject's curriculum vitae [15]; and his article on the Parents and GOD Doctor of Philosophy, published in the *International Journal Research Publication Analysis* in October 2026 [14]. Facts about degrees, dates, titles and results are reported as they appear in these documents. Honours and descriptions that originate in the subject's own writing are attributed to him as such (Section 8). Interpretations are the article's own and are offered for the reader to weigh.

3 Inertia: The Direction a Life Carries Forward

Every trajectory starts with momentum. Gajawada's begins at the Indian Institute of Technology Roorkee, one of the country's oldest and most rigorous technical institutions, established in 1847. There he completed a five-year Integrated Dual Degree (B.Tech and M.Tech) in Computer Science and Engineering with a specialisation in Information Technology, graduating in 2012 [7, 15]. The biography written about him describes the result as an unusual scientific temperament: "equal parts engineer and dreamer."

What he did next defines the rest of the story. Rather than follow the well-worn path from campus into a conventional laboratory, he chose the independent road, publishing outside the gravity of a university department or a corporate research group and answering, in the words of his own account, to his curiosity [7]. Fourteen years later that choice has become an identity, carried in the line he places beneath his name: *IIT Roorkee Alumnus*. The affiliation tells readers where his technical foundations were laid; the fourteen years tell them what he built on top.

His sense of the journey reaches further back still. In the Parents and GOD Doctor of Philosophy (PGPhD), the personal "thesis" he has built around a lifetime of learning, the duration is counted from 12 March 1988 and ends, deliberately, with the word *Present* [14]. A momentum that has no stated end date is the clearest picture of inertia a biographer could ask for.

> *Inertia, in this life, is not stubbornness. It is the habit of continuing: fourteen years, one direction, no pause for permission.* Interpretive reading

4 Personal Best: What He Has Built

The second term of the update rule pulls a particle toward the best position it has personally found. For Gajawada, that position is a body of work whose scale is itself remarkable: his curriculum vitae counts thirty named fields, algorithms and design archetypes [15]. They fall into five kinds of construction.

4.1 He builds fields

Gajawada proposes whole territories of artificial intelligence and then draws their maps. *Out of the Box Artificial Intelligence (OBAI)* is the widest umbrella, sheltering ideas such as Artificial Human Optimization, Artificial Heart Neural Networks, Artificial Satisfaction, AI++ and Lord Rama Artificial Intelligence. *Very Highly Advanced Artificial Intelligence (VHAAI)*, introduced in July 2024, gathered over a decade of earlier ideas under a single banner, alongside *Data Science++* (2024). *Excellent Artificial Intelligence (EAI)* followed on 10 January 2026 as a bundle of five articles on SSRN [15, 16]. Each umbrella is larger and warmer than the last: a consolidating, ever-widening ambition.

4.2 He builds institutions

Where most researchers join societies, Gajawada founded one. The *International Society for Very Highly Advanced Artificial Intelligence (ISVHAAI)*, proposed in October 2024, exists in the stated words of its own description "to improve and apply Very Highly Advanced

Artificial Intelligence (VHAAI) for solving various problems" [7]. Through it he launched the *ISVHAAI AI Society Letters*, a series of short, frequent dispatches (Letters 1 to 8 and beyond appeared in July and August 2025), each introducing a new swarm algorithm built around a human value or a slice of everyday life [7, 15]. A society, a series and a vocabulary: three pieces of infrastructure built by one person, on his own terms.

4.3 He builds algorithms with a heart

The Letters expanded a particle-swarm family in which the usual vocabulary of gradients and convergence gives way to the vocabulary of virtues. Table 1 gathers the family by theme.

Table 1. The swarm family: value-themed algorithms in the sources, grouped by theme.

Theme	Examples named in the sources	Spirit
Human values	Kindness and Excellence PSO (KEPSO); Love PSO; Money PSO; Happiness and Health PSO; Acceleration PSO	Optimisation as an act of care
Human relationships	Friendship Human Swarm Optimization (FdHSO); Vehicles Human Swarm Optimization; PGBGSGAIA (modelled on the author and his parents)	Search as companionship
Daily life	Summer Season Energy Drink PSO (SSEDPSO); Cricket Match Runs Algorithm; Rice Bags Sales Algorithm; English Language Sentence Algorithm; Object Swarm Optimization Algorithm	Ideas hiding in ordinary things
Popular culture	Artificial Cartoon Popeye Algorithm; Artificial Cartoon Chhota Bheem Algorithm	Science with a smile
Relationships as AI	TBSFMFAIA (Teacher, Brother, Sister, Father, Mother, Friend AI); KLSPEMHRIHAIA; AIRAv1	AI that mirrors the people who raise us

4.4 He builds theories of purpose

The earliest item attributed to Gajawada is a 2012 piece, the *Smile Theory of Everything* [15]. Fourteen years later the idea returned as *Ten Plus Theories of Everything*: thirteen propositions about human motivation, each in the same generous form, "whatever you do, ultimately it is to attain X and help others attain X", with X ranging across happiness, kindness, peace, money, health, technology, love, satisfaction, excellence, respect, intelligence, GOD and parents [11]. The paper groups them into five families (affective, relational, developmental, instrumental, and transcendent-filial) and proposes how each might be tested through experience sampling and cross-cultural ranking studies. The grammar is worth pausing on: it contains *a self-directed half and an other-directed half*. Even the Money

and Technology theories require that one help others earn and build. Generosity is written into the structure of the thought.

4.5 He builds frameworks for a fairer world

The *108-Rights Matrix* arranges 108 duty-correlative human rights into nine domains of twelve rights each, from Life, Body and Health to Environment, Technology and Future. Every right passes five tests (universality, necessity for flourishing, distinctness, duty-correlativity and an enforceability gradient) and carries a status code: 54 Codified, 39 Emerging and 15 Proposed. Six "Founding Rights" (happiness, peaceful sleep, money, respect, work and marriage) are analysed in depth to show how everyday goods that ordinary people name can be translated into bounded, workable rights [12]. The result is a map that lets a teacher, a legislator or a citizen ask of any right the question the paper ends on: who owes what to whom?

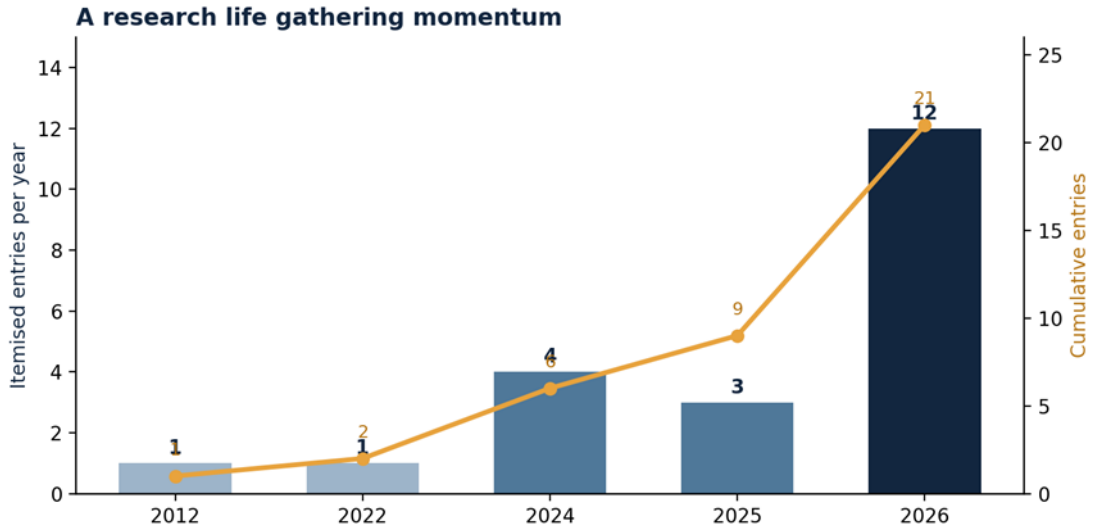


Figure 2. Itemised entries per year in the author's curriculum vitae (series counted once; n = 21) [15]. Output rose from one entry in 2012 to twelve in 2026.

Table 2. Milestones of a research life, 2012–2026.

Date	Milestone	Kind
2012	*Smile Theory of Everything*	Theory
Jul 2024	*Very Highly Advanced Artificial Intelligence (VHAAI)*; *Data Science++*	Field
Oct 2024	Proposal for ISVHAAI, the International Society for VHAAI	Institution
Nov 2024	*Emerging Torchbearer in Artificial Intelligence* (editorial)	Journal editorial

Date	Milestone	Kind
	[10]	
Jul–Aug 2025	ISVHAAI AI Society Letters, Nos. 1–8+	Series
Jan 2026	*EAI: The Beginning*; *Four Unique AI Algorithms*; PGBGSGAIA	Field and algorithms
Apr 2026	*Parents Theory of Everything* and *Thank You Parents for Everything*	Personal philosophy
2026	Three IJPEH papers [7–9]	Journal articles
2026	*Ten Plus Theories*, *108-Rights Matrix*, *Seven Names, One Life*, *From Naming to Testing*	Manuscripts under review
Oct 2026	*Learning Under Three Supervisors: The PGPhD* (IJRPA) [14]	Journal article

5 Global Best: The Pull of Guidance Larger Than Oneself

In swarm search, the third force draws a particle toward the best position known to the whole group: collective wisdom. In Gajawada's own reading, the child "is pulled towards the best examples of the group, namely parents, elders, and teachers" [9]. This term is where his biography becomes most distinctive, because he has named his guides aloud.

5.1 Parents and GOD as supervisors

The *Parents and GOD Doctor of Philosophy (PGPhD)* is a self-designated thesis titled *Artificial Intelligence and Real Intelligence*. Its supervisors are his father, Prabhakar Gajawada; his mother, Bhagyamma Gajawada; and GOD. Its institute is *The Amazing Planet Earth*; its content is the lifetime collection of his articles, which the document counts as "108+" [14]. It is a personal designation, not a conferred degree, and its meaning lies elsewhere: it is a declaration that the earliest and deepest stages of a research life (curiosity, humility, purpose) deserve a name, a register and a thank-you. His 2026 series on service to parents, including *Son Serving Parents (SSP)*, *Service to Parents Is Equivalent to Service to All Beings* and the *Parents Theory of Everything*, gives that gratitude a literary form [15]. His self-adopted title *Independent Doctor of Philosophy Plus Plus (IPhD++)* belongs to the same family of personal designations and expresses, in his own formulation, a career built outside the conventional doctoral path [7].

5.2 Krishna, Rama and the archetypes of wise machines

His framework article, *Divine, Familial, and Human-Value Inspirations for Artificial Intelligence*, translates guidance into design [9]. *Krishna AI* is the wise adviser, a charioteer who lays out options and trade-offs while leaving the decision with the human. *Rama AI* is

the principled steward, defined by integrity, promise-keeping and fairness to all users. *Parents-Inspired AI* asks that those who build AI remain accountable for it as parents are for a child: responsible creation, good data as good upbringing, boundaries with explanation, and autonomy extended in steps as reliability is shown. These ideas are tied together in a unified construct, FFMBSTANDEMHRKLSPHIAI, whose training objective keeps its weights in human hands. Principles that governance readers will find familiar (accountability, explainability, human oversight, staged deployment) arrive here through the warm language of family and tradition.

5.3 Rama devotion, made rigorous and public-minded

Six Reflections on Shri Rama moves from the personal to the public through the Divine Name, devotional service, community, the epic retold, ultimate reality and just rule [8]. It is notable for its craft: every claim is sorted into scriptural, traditional or reflective registers; the essay is in conversation with Valmiki, Tulsidas, Gandhi, Ramanujan and Lutgendorf; and its final section translates the ideal of Rama Rajya into accountable institutional arrangements (published accounts, independent audit, grievance procedures, volunteer codes, term limits). Devotion and design thinking meet on the same page.

5.4 Seven principles from three supervisors

The PGPhD article distils the life into seven principles and shows that each has an analogue in swarm and evolutionary search [14]. Table 3 reproduces the mapping.

Table 3. Seven principles of a value-anchored research life [14].

Principle	How it shows in the life	Its analogue in search
1 Gratitude	Acknowledgements that thank "everyone and everything" seen and unseen	Every neighbour's information can enter the update
2 Guidance	Parents and GOD named as supervisors	Personal-best and global-best attractors
3 Service	Service to parents, teachers and society; "be X and help others be X"	A shared fitness term for others' welfare
4 Openness	Fourteen years of out-of-the-box work; thirty named fields and archetypes	Random coefficients and mutation guard against premature convergence
5 Transparency	Generative-AI use disclosed; claims labelled by register	Logged seeds and model-card-style limits
6 Testing	A ten-seed fairness experiment reporting gains, costs and a failure mode	Repeated evaluation before any claim of improvement

Principle	How it shows in the life	Its analogue in search
7 Perseverance	A thesis duration that ends in "Present"	Inertia and an open iteration budget

6 Random Coefficients: Wonder, Whimsy and Cross-Pollination

The fourth force is the one every good search needs and few biographies acknowledge: a small, permanent measure of surprise. Without it a swarm converges early and stops learning. Gajawada's work supplies it in abundance. His catalogue includes algorithms inspired by cartoon characters (Popeye and Chhota Bheem), a cricket match, bags of rice, the English sentence, and a summer-season energy drink. His own description of his project is a canvas for "optimism, kindness, humor, and invention" [7].

This playfulness is a method, not a decoration. By placing a swarm algorithm beside a friendship, a family or a favourite drink, he keeps a door open between disciplines that rarely speak: optimisation and ethics, Indian philosophy and machine learning, devotion and public administration, rights law and AI design. The *Smile Theory of Everything* (2012) and the *Ten Plus Theories* (2026) show the same instinct at either end of the career: ask a very large question in a very friendly voice.

> *A researcher who can smile at his own field, and keep building it, gives students permission to bring their whole selves to science.*
> Interpretive reading

7 The Position Update: From Naming to Testing

A particle that obeys all four forces does not stay still: it moves. The most striking movement in Gajawada's recent career is a deliberate step from *proposing* to *testing*, and from *asserting* to *disclosing*. Three developments define it.

7.1 A reproducible experiment

In the framework article, Gajawada embeds a fairness-type "Respect" term in the fitness function of a genetic algorithm and of PSO on a synthetic data set of 2,000 individuals, with ten independent runs per setting [9]. The settings, seeds and parameters are published in full, so that the study can be regenerated exactly. The results are encouraging at every scale.

Table 4. Test accuracy and demographic-parity gap, mean over 10 runs, by penalty weight λ [9].

λ	GA accuracy	GA parity gap	PSO accuracy	PSO parity gap
0	0.859	0.121	0.858	0.123
0.5	0.867	0.078	0.867	0.078
1	0.840	0.016	0.840	0.016
2	0.768	0.085	0.768	0.085
4	0.769	0.084	0.768	0.085
8	0.768	0.084	0.768	0.085

- **A gentle weight lifts both goals at once.** At λ = 0.5, accuracy rose from 0.859 to 0.867 while the parity gap fell from 0.121 to 0.078.
- **A moderate weight achieves near-parity.** At λ = 1, the gap fell to 0.016, a reduction of roughly 87%, for a cost of about 1.9 percentage points of accuracy.
- **The two optimisers agree, and PSO is fast.** Both reached practically identical solutions, with run-to-run deviations of 0.005 or less; PSO came within 1% of its final objective in about three iterations, against roughly seven to twelve generations for the GA.
- **The study teaches the value of "enough".** Beyond λ = 1 the results stopped improving, giving a concrete picture of the value he calls *Satisfaction*: more pressure is not always better.

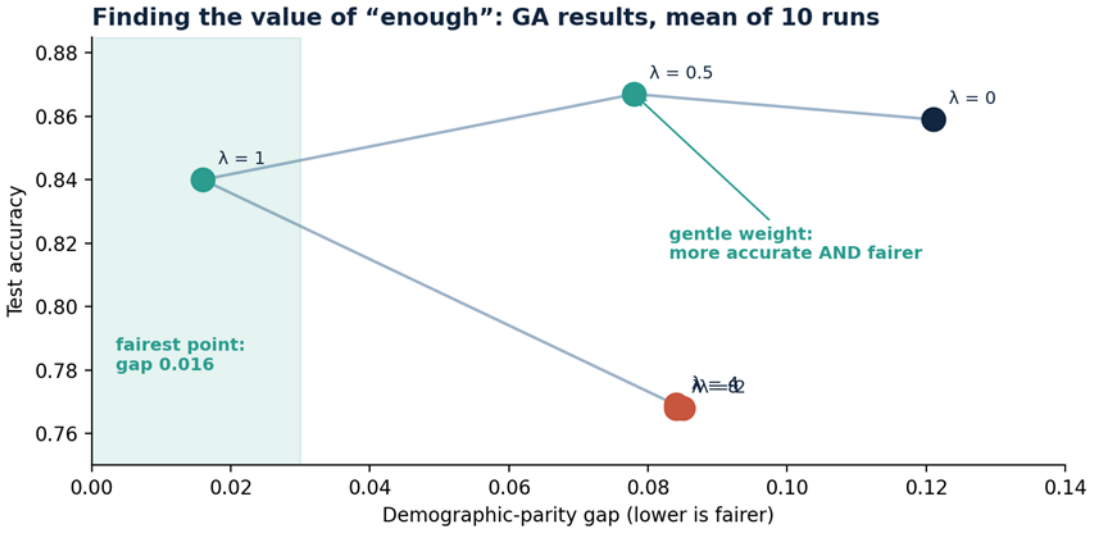


Figure 3. The trade-off between accuracy and fairness across penalty weights (GA, mean of 10 runs) [9].

7.2 A language for what a claim is worth

The 2026 papers adopt a discipline that many research programmes would admire. *Six Reflections on Shri Rama* closes every reflection with an "Epistemic Status" subsection [8]. The framework article calls its mappings "metaphorical and heuristic" and states that the historical inventors of the algorithms cited biology, physics and cognitive science [9]. The *108-Rights Matrix* gives every one of its 108 entries a Codified, Emerging or Proposed code so that aspiration is never mistaken for settled law [12]. The *Ten Plus Theories* discusses how each theory could be made falsifiable [11]. Such practices place a researcher in the company of the model-card and datasheet movements [6], extending their spirit from models to ideas.

7.3 Open about the tools

Each 2026 paper states plainly how generative-AI tools were used, who reviewed the output and who is accountable. In a period when research communities are still writing the norms for AI-assisted writing, that clarity is a contribution in itself, and it matches his own framework's call for transparency about process beside transparency about models [9, 14].

8 Distinctions and Self-Descriptions, as Recorded in His Own Writings

The sources record several distinctions that Gajawada himself reports. They are included here because they show how he understands the path he has walked, and each is attributed to its origin.

Table 5. Distinctions and designations as reported by the author.

As stated in the author's writings	Origin	Role in this portrait
Acknowledgement from IEEE figure Dr. Sattar B. Sadkhan for contributions to the field of science	Author's writings	Encouragement from the wider community
A research project indexed by NASA's Astrophysics Data System	Author's writings	Reach of an independent project
A project partially supported by an IBM Shared University Research (IBM SUR) Award	Author's writings	Support for a project
An early contributor to the concept of Artificial Human Optimization, as described by some peers	Author's account	Early work on a human-centred theme
Independent Doctor of Philosophy Plus Plus (IPhD++)	Self-adopted title	A personal designation for an independent path
Parents and GOD Doctor of Philosophy (PGPhD; holder styled PGDr.)	Self-designated	A personal designation of gratitude

9 What Satish Gajawada Is: Ten Portraits

Putting the four forces and their outcome together, ten portraits emerge. Each is grounded in the sources above.

1. **A namer of worlds.** He sees an unclaimed corner of artificial intelligence and gives it a name, a definition and a first map: EAI, VHAAI, OBAI, DS++, AHO, AHNN, AI++.
2. **A builder of institutions.** He founded ISVHAAI and its Letters series, creating a home for ideas before anyone asked him to.
3. **A relentless producer.** Itemised output grew from one entry in 2012 to twelve in 2026, with a cadence of new named algorithms measured in weeks.
4. **An optimist who codes kindness.** Kindness, love, friendship, satisfaction and excellence are not slogans in his work; they are the names of algorithms.
5. **A grateful son.** A 2026 series, an algorithm and a thesis honour his parents, Prabhakar Gajawada and Bhagyamma Gajawada, and teach that service to them is service to all.
6. **A bridge between traditions and technology.** Krishna, Rama, dharma and bhakti sit in his papers beside GAs, PSO, neural networks and fairness metrics.
7. **A reproducible experimenter.** His ten-seed study, fully specified and honest about its trade-offs, shows that his vocabulary can be put to measurement.
8. **A candid author.** He labels claims, names his tools and says what each paper does not try to do. That candour strengthens his boldness.
9. **A teacher by design.** The 108-Rights Matrix is built as a pedagogical map; the PGPhD distils seven principles any learner can use.
10. **A long-distance runner.** Fourteen years, one direction, and a duration that still reads “Present”.

10 An Invitation: Write Your Own Update Rule

The deepest gift of a biography is that the reader can borrow its shape. Gajawada’s life suggests five questions that any student, independent researcher or reader in a moment of doubt can ask, one for each term of the rule.

1. **Inertia.** What direction am I already carrying, and what would it mean to keep going for fourteen years?
2. **Personal best.** What is the best thing I have made so far, and how could I name it so that others can find it?
3. **Global best.** Who are my supervisors, the people and sources of meaning who taught me before any institution did? Have I thanked them?

4. **Exploration.** Where could a little more wonder, humour or cross-disciplinary curiosity keep my search from settling too soon?
5. **Position update.** What is one claim I can test, one tool I can disclose, one result I can share this month?

11 CONCLUSION

The particle swarm rule has four terms and a single purpose: to keep a searcher moving toward better places. Read as a biography, it describes Satish Gajawada with unusual fidelity. His momentum began at IIT Roorkee and has carried through fourteen years of independent work. His personal best is a large and varied body of fields, a society, algorithms, theories and a rights matrix. His global best is a chosen circle of guides, his parents, his tradition and GOD, whom he thanks in every paper. His exploration is wonder, humour and an openness to join worlds that rarely meet. And his latest position update, from naming toward testing and from boldness toward candour, shows a researcher still in motion and still improving.

The enduring lesson of his story is hopeful and practical. A research life does not need a laboratory to begin, only a direction, a debt of gratitude and the willingness to take the next honest step. As the thesis he wrote for himself reminds us, it is never finished by one act of heroism; it grows “by one honest article after another” [14]. The measure of such a life is not only what has been named, but how many others are invited to join the swarm.

Declarations

Acknowledgements

My heartfelt gratitude goes to everyone and everything that has, in ways both seen and unseen, directly or indirectly contributed to the person I am today. Every person, experience, opportunity, challenge, and circumstance has played a part in shaping my journey.

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Conflict of Interest

The subject of this biography is also its author of record and the source of its materials. This non-financial interest is disclosed. There were no funders.

Data Availability Statement

No datasets were generated or analysed. All statements are drawn from the eight source documents listed in Section 2. The fairness experiment summarised in Table 4 is reported in [9], whose script is available from its corresponding author on reasonable request.

AI Usage Disclosure

This article was drafted with the assistance of the large language model Claude (Anthropic), in response to a request from Satish Gajawada, who supplied the eight source documents and the direction for an inspiring, positive biography. The AI system selected the swarm-equation structure, drafted the text and prepared the figures from data in the supplied documents. It conducted no external research and added no biographical sources beyond those supplied. The AI system is not an author and cannot take responsibility for the work; the human author reviews the content and is accountable for it.

Author Contributions

Conceptualization, S.G.; resources, S.G.; writing—review and editing, S.G. The manuscript text was drafted with generative-AI assistance as described in the AI Usage Disclosure.

Note on Verification

This biography is based on the supplied documents, many of which are self-authored or self-published. Dates, titles, publication details and distinctions should be checked against primary sources before final submission.

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