EXECUTIVE TECHNOLOGY PROFILE

SAI PAVAN VELIDANDLA

Founder & CEO, RedRuff | Former CTO, Brainovision Solutions India



ARCHITECTING INTELLIGENCE.

Entrepreneur, inventor, AI researcher, systems architect and deep-tech educator building AI products, automation systems, programming abstractions and practical learning experiences - with a career spanning technology leadership, R&D and large-scale technical education.

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17+	400,000+	13+	15+
Years in Technology Training	Students & Professionals Trained	Years of R&D	Libraries, Tools & Systems

PROFESSIONAL SUMMARY

Technology leader with 17+ years of training experience and 13+ years of R&D across artificial intelligence, software systems and emerging technologies. Associated with Brainovision from 2017 to June 2026, serving as CTO from 2024 to June 2026; Founder & CEO of RedRuff since 2026. Has trained 400,000+ students and professionals through institutional, corporate, government and large-scale technology programs. Creator of ABHA, AQL, ORQA-KIT and other AI systems, with a teaching and product philosophy centered on building from first principles and turning complex ideas into working systems.

CORE EXPERTISE

Generative AI & LLMs · Agentic AI · AI Automation · Data Science & ML · Full-Stack Systems · Quantum Computing · System Design · Technology Education

INSTITUTIONAL EXPOSURE

Training and technology-program experience across colleges and universities, DRDO, STQC, and Government of Bihar programs involving IAS and IPS officers, alongside corporate and professional audiences.

LEADERSHIP & EXPERIENCE

2026 - PRESENT

Founder & CEO
RedRuff

Building AI products, automation systems, agentic applications and practical AI learning experiences.

2024 - JUN 2026

Chief Technology Officer
Brainovision Solutions India Pvt. Ltd.

Technology strategy, emerging-tech programs, technical leadership and innovation across AI, full-stack, automation and quantum initiatives.

2017 - 2024

Technology & Training Leadership
Brainovision Solutions India Pvt. Ltd.

Progressive roles across innovation, technical delivery, program design, mentoring and institutional technology engagements.

PRIOR TO 2017

Independent / Freelance Technology Trainer
Self-employed

Built the early training practice through direct delivery of software and emerging-technology programs before joining Brainovision.

AI, DATA & SOFTWARE PROGRAM PORTFOLIO

Selected Brainovision programs personally delivered, guided or mentored across AI, data science and application development.

DELIVERY RANGE

Workshops | Value Added Courses | Internships | Bootcamps | Hackathons | Project Mentoring | Self-paced Learning

GENERATIVE AI & DATA

AI for Generation & Automation (AIGA)

6-WEEK BRAINOVISION INTERNSHIP

Hands-on GenAI and automation program covering small-scale LLMs, prompt engineering, context engineering, neural-network foundations, deep learning and project delivery. Participant records explicitly credit Sai Pavan as trainer.

AI with Python, Data Science & ML

2-MONTH OFFLINE INTERNSHIP

Project-led internship spanning Python, ML and computer vision - including face, object and emotion detection, Raspberry Pi 5 deployment, sensor integration and hardware-software interfacing.

Data Science Using Python for AI

3-DAY INSTITUTIONAL WORKSHOP

Real-world data workflow from cleaning and EDA through Random Forest modeling, evaluation and interpretation. A documented participant built a complete Titanic-data project during the program.

Generative AI

BRAINOVISION LMS COURSE

Brainovision self-paced course listed under Sai Pavan Velidandla, extending Generative AI instruction beyond live workshops into reusable learning content.

FULL-STACK & APPLIED AI

Mastering ChatGPT

4-DAY WORKSHOP + HACKATHON - MLR INSTITUTE OF TECHNOLOGY

GPT fundamentals, coding and applied project building, culminating in a competitive hackathon. Public participant records credit Sai Pavan for technical guidance.

MERN Stack Value Added Course

MAR 9-14, 2026 - GEETHANJALI COLLEGE - 36 HOURS

Delivered to 108 II-year CSE students. MongoDB, Express, React and Node, including authentication, deployment, capstone development and hackathon execution. Around 40 projects were developed.

FERN Stack Full-Stack Program

1-WEEK WORKSHOP + HACKATHON - KKR & KSR INSTITUTE

React.js, Node.js, Express.js and Firebase with practical application development and hackathon-based project delivery.

HOW THE PROGRAMS ARE BUILT

- Concept -> architecture -> implementation
- Hands-on builds instead of slide-only learning
- Capstones and hackathons for application
- Mentoring through debugging, review and iteration

TRAINING PHILOSOPHY

Do not stop at tools or APIs. Teach the underlying system, make learners build real projects, and use delivery formats that convert theory into technical confidence.

QUANTUM & EMERGING TECHNOLOGY PROGRAMS

Selected Brainovision quantum-computing programs, hackathons and applied-research initiatives from the recent program portfolio.

Quantum Computing - VJIT
OCT 13-15, 2025 - 3-DAY WORKSHOP

Brainovision and VJIT program announced as a three-day journey guided by Sai Pavan, focused on qubits, quantum computation and future technology.

Quantum Computing - Sri Vasavi
2-DAY HANDS-ON WORKSHOP

Quantum principles, Qiskit, real quantum algorithms, gates, qubits and entanglement in an institution-industry format.

Quantum Workshop & Hackathon - Usha Rama
350+ STUDENTS

Large-format Brainovision workshop and hackathon combining fundamentals, hands-on sessions and team problem-solving; Sai Pavan was part of the credited program team.

Quantum Computing: Zero to Hero
TECHNICAL LEARNING RESOURCE

A structured quantum-learning handbook / resource cited by workshop participants as a comprehensive companion to Brainovision quantum programs.

Quantum Workshop & Hackathon - Bapatla Women
170+ PARTICIPANTS

Hands-on quantum learning and hackathon program with institutional collaboration; Sai Pavan was among the credited Brainovision team.

Quantum Workshop & 24-Hour Hackathon - Bapatla Engineering College
4-DAY PROGRAM + 24-HOUR HACKATHON

Brainovision initiative associated with AICTE, T-Hub, MATH and NASSCOM; Sai Pavan was publicly listed with the program team.

Quantum Generative AI - Pragati Engineering College
APPLIED RESEARCH WORKSHOP

Brainovision / AICTE NEAT program integrating Generative AI with live quantum circuits and real quantum hardware; Sai Pavan was included in the credited team.

INSTITUTIONAL & AUDIENCE REACH

Training and technology-program experience across colleges and universities, DRDO, STQC, and Government of Bihar programs involving IAS and IPS officers, alongside corporate and professional audiences.

FORMATS

Workshops | Bootcamps | Internships | FDPs | Hackathons | Value Added Courses | Executive Sessions | Government Programs

WHAT DIFFERENTIATES THE DELIVERY

The training work is backed by active building and R&D. Learners are exposed not only to how tools are used, but to how systems are structured, why they behave the way they do, and how to create working implementations from first principles.

17+ years training | 400,000+ learners | 13+ years R&D

R&D, INVENTIONS & SELECTED WORK

A portfolio of programming abstractions, agentic systems, research models, frameworks and build-from-first-principles learning systems.

CORE THESIS

AI should not remain a chat interface. It can become a programmable execution layer - something developers can structure, orchestrate, test and build around.

ABHA

INTELLIGENCE-NATIVE PROGRAMMING LANGUAGE

Designed to express agent behavior, reasoning pipelines and execution logic, treating intelligence as a first-class programming concept.

AQL

AI QUERY LANGUAGE

Structured, SQL-like syntax for defining context, constraints and output behavior for LLM interactions - reducing reliance on fragile free-form prompts.

ORQA-KIT

PYTHON TOOLKIT FOR AGENTS

Orchestrated Reasoning & Querying for Agents: a toolkit focused on structured, testable reasoning chains and agent-oriented execution.

REFORM

RESEARCH MODEL - PUBLISHED JUL 2025

Recurrent-encoded probabilistic forest combining an MLP-LSTM encoder with probabilistic random-forest behavior for tabular and sequential learning.

AIGA-JS

LANGUAGE FOR AI AUTOMATION

A small language aimed at serious AI automation, extending the broader AIGA direction into programmable automation constructs.

Derive Thinking

STRATEGIC IDEATION METHODOLOGY

A structured process for learning, building ideas / strategies / solutions, and validating them through evidence and criticism.

IQECC

CONNECTED LEARNING FRAMEWORK

A multi-domain learning framework intended to bridge abstract theory and deep system design through connected understanding.

Build Your Own Systems

SYSTEM DESIGN EDUCATION

Creator of build-from-scratch learning experiences including Build Your Own ChatGPT and Build Your Own JS Framework - teaching architecture, not just API usage.

RESEARCH & BUILDING FOCUS

- Agentic AI & multi-step execution
- AI automation & orchestration
- Programming languages / abstractions for AI
- Machine learning & applied research
- Quantum computing and Quantum-AI exploration
- Autonomous systems, Space-Tech and deep-tech experimentation

CONNECT / COLLABORATE

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