

SAIPRADEEP V.G.

Senior Scientist | Precision Oncology | Computational Pathology | AI for Healthcare
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PROFILE

22+ years industry experience including 20+ years in R&D. Research leader at TCS Research focusing on Precision Oncology, Computational Pathology, Bioinformatics, AI and Translational Healthcare.

CORE EXPERTISE

- Precision Oncology
- Computational Pathology
- Drug Response Profiling
- Organoid Imaging
- Computer Vision
- BioNLP & Text Mining
- Multi-omics Analytics
- Information Retrieval
- Clinical Decision Support

EDUCATION

M.S. Computer Science
Max Planck Institute for Informatics/Saarland University, Germany

M.Sc. Computer Science
Sri Venkateswara University

SELECTED HIGHLIGHTS

- Precision Oncology Lead
- Published Researcher
- Research Team Leadership

EXECUTIVE SUMMARY

Senior Scientist leading AI-driven precision oncology research spanning risk stratification, prognostic modelling, drug response prediction, digital tumour modelling and computational pathology. Experienced in translating research innovations into clinically meaningful decision-support solutions.

RESEARCH LEADERSHIP & IMPACT

- Leads precision oncology strategy across diagnostics, prognosis and precision intervention programmes.
- Drives development of pathology AI, organoid-based drug response profiling and translational oncology platforms.
- Contributed to biomedical informatics, rare disease analytics, pharmacovigilance and scientific knowledge discovery systems.

PROFESSIONAL EXPERIENCE

TCS Research & Innovation (2010–Present)
Senior Scientist / Scientist

- Lead AI and biomedical informatics programmes.
- Architected TPX biomedical literature intelligence platform.
- Developed computational pathology and clinical decision-support concepts.

TCS iLabs (2007–2010)

Researcher / Technical Architect

- Developed biomedical literature mining and semantic search technologies.

Earlier Research & Engineering Roles (2002–2007)

- Worked across workflow systems, information retrieval, enterprise platforms and banking solutions.

TECHNICAL SKILLS

Scientific & Domain: Precision oncology, computational pathology, digital tumour modelling, drug response profiling, organoid imaging, biomedical informatics, BioNLP, rare-disease informatics, pharmacovigilance, clinical document mining.

AI / Data: Computer vision, NLP/text mining, named entity recognition, information retrieval, semantic search, association mining, topic modelling, artificial neural networks, multi-omics

analytics.