

# Dr. Sakshi Bharti

Scientific AI, Bioinformatics, Data Operations and Healthcare Innovation

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Germany work permitted

## PROFILE

PhD-qualified bioinformatics and systems biology professional bridging life science research, AI-enabled workflow design, data analytics, startup operations and business-facing execution. Experienced in computational biology, omics workflows, SQL/C#/Python/R/SAS data work, scientific documentation, B2B communication and practical automation. Open to roles connecting bioinformatics, clinical or scientific data, AI automation, research operations, product operations, customer-facing scientific technology and healthcare innovation.

## CORE CAPABILITIES

Bioinformatics

Systems Biology

Scientific AI

RAG and Agents

SQL / C# / Python / R / SAS

SDTM / ADaM / TLF Concepts

Business Intelligence

Startup Operations

B2B Communication

Technical Documentation

## PROFESSIONAL EXPERIENCE

### Chief Operating Officer, Bioinformatics and AI Operations | Aomics GmbH

Germany | Part-time | 2020-present

- Support operations, strategy and cross-functional execution for a startup at the intersection of bioinformatics, AI and life sciences.
- Contribute to B2B sales and business development through opportunity research, client communication, service positioning, proposal coordination and follow-up.
- Delivered database-management and business-intelligence analytics services, applying SQL and C# in reporting and decision-support workflows.
- Translate scientific and technical capabilities into clear business value, documentation, implementation plans and AI-enabled workflow concepts.

### Guest Researcher / Doctoral Researcher | Senckenberg BIK-F and Goethe University Frankfurt

Frankfurt am Main, Germany | 2017-2026

- Conducted PhD research in biology and bioinformatics focused on oomycete promoter regulation and computational biological analysis.
- Designed, executed and documented reproducible workflows involving sequence data, biological interpretation, literature review and scientific reporting.
- Built strong skills in research planning, quality-aware data handling, scientific writing, stakeholder collaboration and presentation of complex findings.

## Research Associate | Punjab Agricultural University, Department of Agriculture

Punjab, India | 2014-2016

- Supported the Oil-seeds Research Group with research administration, implementation and computational analysis for Brassica omics datasets.
- Established analytical pipelines for large NGS and omics datasets, including data collection, cleaning, integration and management.
- Developed R/Python workflows, deployed pipelines on high-memory servers and collaborated with plant breeders, molecular scientists and experimental teams.

## Founder | Lovemeer

Königstein im Taunus, Germany | 2025-present

- Founded and operate a wellness-focused platform covering positioning, supplier outreach, customer communication, events, content and operations.

## SELECTED PROJECTS

- **Clinical data pilot:** SDTM mapping, ADaM preparation, TLF generation concepts, SAS/R workflows and quality checks.
- **AI/RAG workflows:** document retrieval, embeddings, vector database concepts, LangChain/LangGraph concepts, Streamlit and Gradio prototypes.
- **GitHub workshops:** beginner-focused materials for reproducible programming and version-controlled workflows.
- **SentinelMesh AI:** cybersecurity AI group project with agent-style analysis, RAG architecture and deployed demo delivery.

## EDUCATION

### PhD, Biology / Bioinformatics

Goethe University Frankfurt and Senckenberg BIK-F, Germany | 2017-2026

### MSc, Systems Biology and Bioinformatics

Punjab University, India | 2011-2013

### BSc (Hons), Bioinformatics

Punjab University, India | 2008-2011

### Diploma, Nutrition and Public Health

IGNOU, India | 2016-2017

## TOOLS AND COMMUNICATION

**Technical:** Python, R, SAS, SQL, C#, JavaScript fundamentals, PostgreSQL, Git/GitHub, Jupyter/Colab, Markdown, LangChain, LangGraph concepts, OpenRouter, Hugging Face tools, Tavily, Gradio, Streamlit, n8n, Google Sheets and Gmail automation.

**Domains:** bioinformatics, molecular biology, promoter regulation, sequence analysis, omics workflows, clinical data concepts, business intelligence, startup operations, scientific writing and technical documentation.

**Languages:** English fluent; German B1 certified and improving toward B2; Hindi/Punjabi native or professional working proficiency.