

Rajdeep Mondal

SENIOR DATA SCIENTIST, GENAI LEAD AT ELUCIDATA

I build AI systems that can defend their answers.

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Experience

JAN 2024-PRESENT

Senior Data Scientist, GenAI Lead, Elucidata

I lead all GenAI initiatives for autonomous research in drug target discovery and validation.

- I work across retrieval, evidence quality, citation behavior, evaluation, and orchestration.
- I frame AI output as cited research work that a reader can inspect.
- I build internal agents for analysis, document extraction, and dataset search.

JUL 2022-DEC 2023

Data Scientist, Elucidata

I took generative AI at Elucidata from first prototypes to shipped systems across four business verticals.

- I built an enterprise AI assistant with permission-aware retrieval and source-cited answers.
- I shipped an agent in 2022 that turned mismatched spreadsheet schemas into analysis-ready data.

Selected Work

PRODUCTION AI · BIOMEDICAL RESEARCH

Polly Lens

If you give it a gene-disease pair, Polly Lens traces mechanism-of-action evidence into cited review drafts that an expert can examine.

- The hard parts are retrieval quality, evidence grades, and behavior when the evidence is thin.
- My role covers agent architecture, product behavior, evaluation, and reliability.

PRODUCT · INTERVIEW PREPARATION

ACE AI

A study platform for AI engineering interviews, with 2,049 expert answers across 28 topics.

- It has quiz, spaced-repetition, and progress modes, so practice forces recall.
- It reached roughly 650 organic users in its first three weeks.

Writing

Claude Code, Under The Hood

These 18 essays explain coding agents as runtime systems, each with a figure that runs.

VOICE-FIRST · PUBLIC HEALTH ACCESS

Vaidya

A caller asks about health coverage in their own language and hears which scheme they can claim.

- It answers by phone in 23 languages, so it needs no app and no written English.
- A wrong yes costs more than a slow no, so false positives stay near zero.

OPEN SOURCE · BIOMEDICAL RETRIEVAL

PMCGrab

PMCGrab is a Python package. It converts PubMed Central papers into JSON with sections, tables, figures, and references.

- It extracts at 98% accuracy, measured across more than 7,500 papers.
- The public source lets a reader inspect the extraction.

Skills

AI systems retrieval augmented generation

biomedical agents evidence quality citation behavior

evaluation strategy agent orchestration failure modes

technical writing TypeScript React Next.js Python

Publications

Oncopacket: integration of cancer research data with GA4GH phenopackets OXFORD

Multi-agent AI System for High Quality Metadata Curation at Scale BIORXIV

Education

B.S. (Honors) in Computer Science

UNIVERSITY OF CALCUTTA • JUN 2017-NOV 2020

Ranked second in the batch across all years. I set a university record of 91% in the second year, and finished at 84.5% overall.

Certificates

Mastering LLMs Google ML Engineer

Google Advanced Data Analytics Google Project Management

Drug Development