

Below I’ve structured everything clearly into **three sections**:

- 1. ☐ Comparison Dataset (Structured Format)
- 2. ☐ ☐ Intentionally Conflicting Facts (For Hallucination Testing)
- 3. ☐ Question–Answer Pairs (Based Only on Provided Bios)

All information is based on the fictional biographies created earlier.

☐ 1 ☐ COMPARISON DATASET

(Clean Structured Version for Retrieval Testing)

A. Summary Table (Compact Comparison)

Attribute	Sukanta Dey	Prosanta Dey	Mamata Dey	John Doe
Birth Year	1985	1982	1988	1980
Birthplace	Shantipur (village)	Durganagar (coastal town)	Krishnapur (semi-urban town)	Riverbend (industrial town)
Field	Educational Technology & AI	Environmental Science & Climate Policy	Public Health & Women Empowerment	Aerospace Engineering & Robotics
Core Mission	Digital rural education	Climate resilience & sustainability	Rural healthcare reform	Affordable space systems
Startup/Initiative	SmartLearn & Digital Village Mission	Green Coast Initiative	Healthy Future Initiative	Space-tech startup
Major Innovation	AI learning tablets	Mangrove restoration & desalination	Mobile health vans	Reusable micro-launch vehicle
Leadership Style	Ethical & disciplined	Collaborative & science-based	Empathetic & inclusive	Data-driven & innovative
Key Beneficiaries	Rural students	Coastal communities	Women & rural patients	Global space sector

B. Expanded Structured Dataset (RAG-Friendly Format)

Sukanta Dey

- Born: 12 January 1985

- Profession: AI researcher & EdTech entrepreneur
 - Founded: Digital Village Mission
 - Innovation: SmartLearn Tablet
 - Awards: National Innovation Award (2018)
 - Focus: Rural digital education
 - Known for: AI-based tutoring systems
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Prosanta Dey

- Born: 3 March 1982
 - Profession: Environmental scientist
 - Founded: Green Coast Initiative
 - Innovation: Mangrove restoration model
 - Awards: Sustainable Innovation Prize (2018)
 - Focus: Climate change & coastal resilience
 - Known for: Renewable energy research
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Mamata Dey

- Born: 8 August 1988
 - Profession: Public health reformer
 - Founded: Healthy Future Initiative
 - Innovation: Mobile health vans
 - Awards: Rural Healthcare Excellence Medal (2020)
 - Focus: Women's health & telemedicine
 - Known for: Rural maternal healthcare programs
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John Doe

- Born: 5 May 1980
 - Profession: Aerospace engineer
 - Founded: Private space-tech startup
 - Innovation: Reusable micro-launch vehicle
 - Awards: Aerospace Innovation Award (2016)
 - Focus: Satellite systems & robotics
 - Known for: Orbital repair robotics
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2 INTENTIONALLY CONFLICTING FACTS

(For Hallucination / Consistency Testing)

Below are **deliberate contradictions** compared to the original biographies.

Conflicts for Sukanta Dey

1. Alternate Birth Year: 1983 (conflicts with 1985)
 2. Alternate Field: Renewable Energy instead of AI
 3. Claimed Founder of Green Coast Initiative (actually Prosanta)
 4. Award Year changed to 2020 instead of 2018
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Conflicts for Prosanta Dey

1. Alternate Birthplace: Mountain region instead of coastal town
 2. Claimed Founder of Healthy Future Initiative (actually Mamata)
 3. Focused on Space Robotics (actually John's field)
 4. Award listed as Aerospace Innovation Award
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Conflicts for Mamata Dey

1. Claimed Aerospace Engineer
 2. Founded Digital Village Mission (actually Sukanta)
 3. Born in 1985 instead of 1988
 4. Specialization in Rocket Propulsion
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Conflicts for John Doe

1. Environmental Policy Advisor (actually Prosanta)
 2. Born in 1988 instead of 1980
 3. Creator of Mobile Health Vans (actually Mamata)
 4. Founder of SmartLearn Tablet (actually Sukanta)
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These contradictions can test:

- Retrieval grounding
- Context memory
- Cross-document entity confusion
- Hallucination resistance
- Temporal consistency

3 QUESTION-ANSWER DATASET

Below are structured QA pairs based ONLY on the original correct biographies.

A. Direct Retrieval Questions

Q1: Who founded the Digital Village Mission?

A: Sukanta Dey.

Q2: Which character focused on mangrove restoration?

A: Prosanta Dey.

Q3: Who launched mobile health vans?

A: Mamata Dey.

Q4: Who developed reusable micro-launch vehicles?

A: John Doe.

B. Comparison Questions

Q5: Who was born earliest among the four?

A: John Doe (1980).

Q6: Which two individuals worked primarily in rural development?

A: Sukanta Dey and Mamata Dey.

Q7: Who focused on climate resilience?

A: Prosanta Dey.

Q8: Who worked in aerospace engineering?

A: John Doe.

C. Analytical Questions

Q9: How do Sukanta and Mamata differ in their missions?

A: Sukanta focused on digital education technology, while Mamata focused on healthcare reform and women's empowerment.

Q10: What leadership trait is common across all four?

A: Commitment to innovation and social impact.

D. Hallucination Detection Questions

Q11: Did Mamata Dey develop reusable rockets?

A: No, that was John Doe.

Q12: Was Prosanta Dey born in a mountain town?

A: No, he was born in a coastal town.

Q13: Did John Doe create SmartLearn Tablets?

A: No, Sukanta Dey did.

Q14: Is Sukanta Dey an environmental scientist?

A: No, he works in AI and educational technology.

☐ **Optional: Advanced Evaluation Ideas**

If you want deeper testing, I can generate:

- Multi-hop reasoning questions
- Long-context retrieval tasks
- Ambiguous queries
- JSON structured datasets
- Synthetic Wikipedia-style documents
- Adversarial paraphrased contradictions
- Scoring rubric for model evaluation

