

UNBIASED.

Judicial Bias



Is it Fair?



Decision
Made by Judge

Decision
Made by a **Function**

X = Constitution

Y = Description of what
the accusation



**Formalized
Representations**

$F(X, Y)$ = Deterministic Outcome

Information about
a person



Unbiased Decision Making

- Decisions are often biased based on *skincolour, income, status* etc.
- *homomorphic encryption* can hide those informations and still take them into account
- good examples are *banking loans* and *court judgements*
- Equal access to opportunities
- Transparency and *accountability* in processes

Information



Tech Stack

- **Backend Framework**

- [Zama.ai](#) provides encryption solutions, that can be used through their libraries
- Implementation could be in Python

- **Frontend Framework**

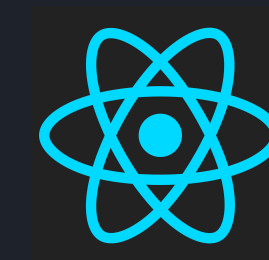
- data can be put into the system through a [website](#)
- [react](#) is commonly used to build websites

- **Database**

- [PostgreSQL](#) could be used
- supports [high throughput](#) of data

- **Place of Computation**

- Since the computation is encrypted, even [centralised servers](#) like [aws](#) can be used to compute the confidential data and give back result scores for the employees

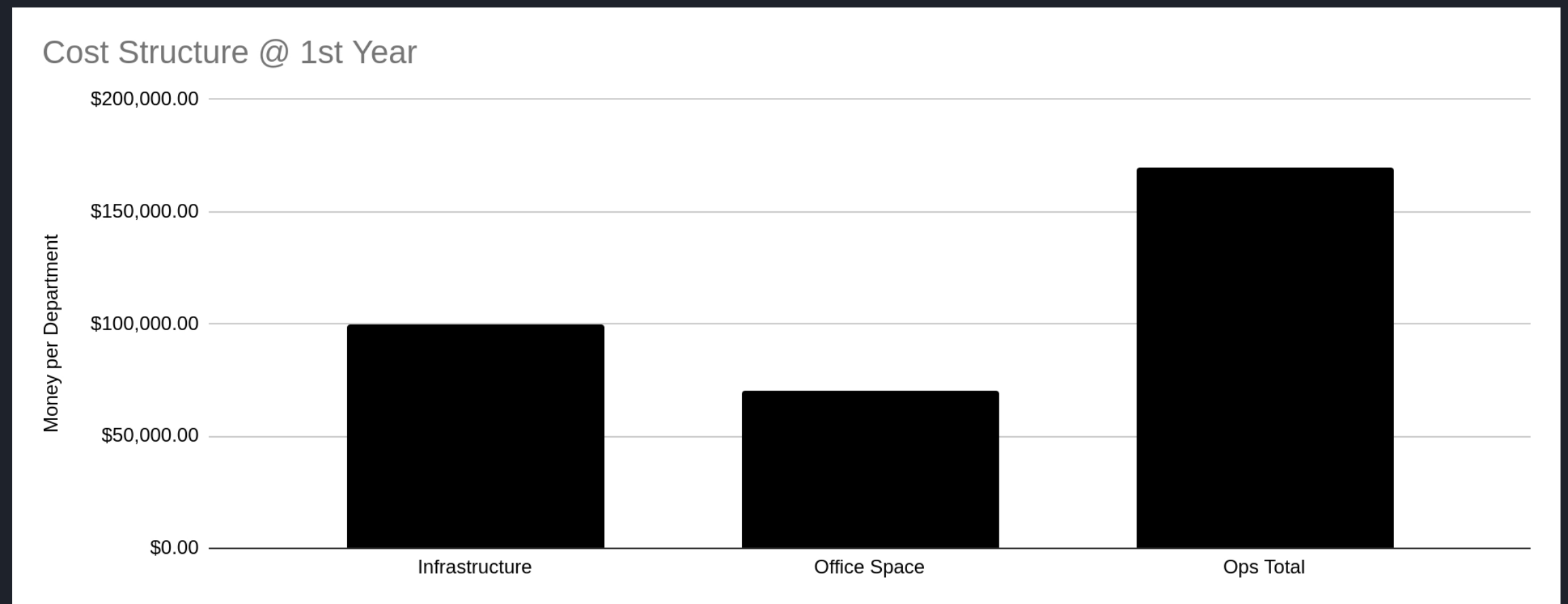


Financial Feasibility





The areas with the main losses resulted after making biased decisions:

- Employment discrimination can cost up to [\\$300k for the employer in the court](#)
- Judicial and Law enforcement bias court cases
- and many others...

and that's
why:



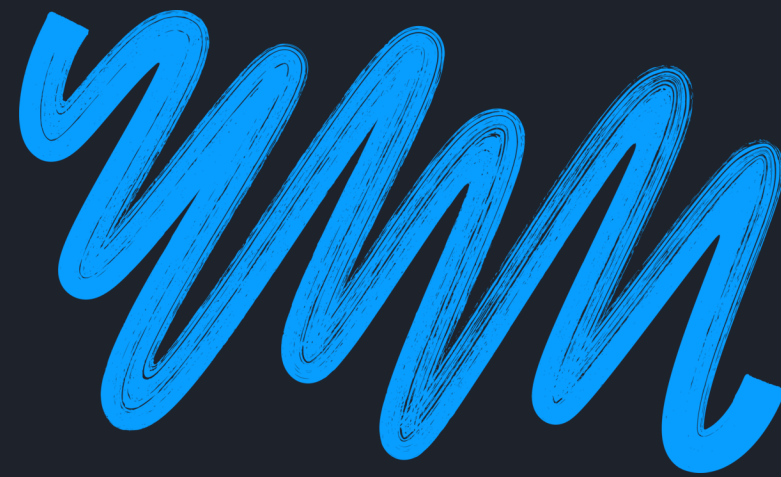
Domain and Social Impact

-  **Equity and inclusion:** Promotes fairness and inclusion, reducing systemic biases
-  **Public trust:** Increases public trust in institutions by demonstrating commitment to unbiased decision-making
 - = Equal opportunities in the real estate market
-  **Economic growth:** Stimulates economic growth by providing equitable financial opportunities.
-  **Innovation:** Drives innovation in blockchain and cryptographic technologies through real-world applications.

Legal Feasibility

Problems here?

- Regulatory Frameworks
- A lot of Work to be Done
- Compliance Strategy
- Experts to be found
- Managing the risks



but...

Thank you for your attention!

Any questions?



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