

The Shadow Agent



Ubi Fredrick

The Shadow Agent. UBI Fredrick

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By

Ubi Fredrick

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Dedication



To the quiet thinkers, the relentless students, and the marginalized voices who use knowledge as their armor.

To those who believe that integrity is a constant, and that the only way to dismantle a flawed system is to master the mathematics of its own construction.

May the truth always be found in the smallest, most overlooked detail.

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The Events



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Prelude



The world we live in is built on precision. Our communication runs on cryptography, our economy on algorithms, our infrastructure on physics, and our security on data science. In the twenty-first century, crime is no longer a matter of brute force; it is a matter of mathematical exploitation.

This is the world of Janiyah. Born into a reality defined by inconsistency and systemic inequity, Janiyah mastered the cold, objective logic of science—not as an academic pursuit, but as a tool for survival. From the complex, unspoken ciphers of the street to the rapid, life-or-death calculus of opportunity, she learned early that the only way to beat a rigged game is to understand the equations that built the trap.

The Shadow Agent is the story of what happens when that unique perspective is brought to bear on global threats. The adversaries Janiyah faces are not common thugs, but highly trained scientists and engineers who weaponize the very principles that hold society together.

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They use Vigenère Ciphers to transmit secrets, Hyperbolic Geometry to hide their movements, Forensic Chemistry to erase their presence, Acoustic Physics to induce chaos, and Machine Learning to monetize their malice.

Janiyah's strength lies in her ability to see the imperfect truth hidden within the flawless lie. She understands that every perfect crime, rooted in the arrogance of infallible science, leaves behind an honest, microscopic trace—a contradiction, a flaw in the logic, a ghost in the sample. She is the specialist who can find the natural noise in the machine-made perfection.

Each chapter in this volume presents a self-contained, high-stakes investigation, showcasing Janiyah's relentless journey to dismantle a sophisticated organization with one scientific principle at a time. It is a testament to the belief that the strongest defense against calculated evil is not violence, but unbiased, unrelenting truth.

For Janiyah, the work is intensely personal. It is the continuation of a promise made long ago: to use the power of science and logic to fight for those who have been overlooked, underestimated, and ultimately, wronged by the flawed equations of the world. The investigation begins.

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Chapter 1: The Decryption



The fluorescent lights of the secure communications analysis lab hummed, a monotonous sound that usually soothed Janiyah, but tonight it felt like a siren. Outside, rain lashed against the reinforced windowpanes, mirroring the urgency tightening in her chest.

Janiyah wasn't dressed for a high-tech lab. She wore a simple, dark utility suit, a stark contrast to the gleaming, half-million-dollar workstations surrounding her. She was positioned before a large, encrypted message displayed on a screen—the centerpiece of a global crisis unfolding in miniature on her desk. The intercepted transmission, flagged Code Red by the Global Security Directorate (GSD), was the key to preventing a coordinated attack that could destabilize two continents.

The message, seized minutes earlier from a drone relay hovering over an isolated dockyard, was an impenetrable block of text:

**QYFJS YLTSJ ZYXZF GZXXF QTSQ ZQYQ
XWYS ZSGF TXFZ GZXXF SFFP TXFZ SZFQ**

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TSJQ GZXXF HTFZ TYYJ SXWF XWYS ZSGF
TXFZ TXFG WJSF ZGXS XFNS TXFJ GZXXF
SFFP GZXXF YSZW TSNQ GSQY QYQZ QYQZ
TXFG ZGXZ GZXXF SFFP TXYF ZYYJ SXWJ.
ZSGF.

“Talk to me, Janiyah,” ordered a crisp voice from the speaker mounted on the wall. It belonged to Director Hayes, her contact in the GSD. His tone was strained, edged with the knowledge that time was



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dissolving faster than acid. “We have four hours before the planned transfer. We need the location. Give me something.”

Janiyah kept her fingers hovering over the keyboard, her eyes tracing the repeating patterns in the seemingly random sequence.

“It’s a substitution cipher, Director. High complexity, based on the non-repeating letter distribution,” she replied, her voice calm despite the adrenaline coursing through her veins. “The initial deep-learning sweep failed to flag a standard key. Too many variations. I’m bypassing the AI and running manual frequency analysis. I suspect a polyalphabetic method, specifically... Vigenère.”

The Vigenère cipher. An old-world method used by new-world criminals who mistakenly believed that layering complexity was the same as being untraceable. Its elegance lay in its use of a keyword, making frequency analysis—the classic Achilles’ heel of single-substitution ciphers—useless unless the key length was found.

A Memory of Street Cipher

As she began to manually compare character repetitions, a strange, grounding memory flashed through her mind. It wasn’t of a sterile university

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lecture hall, but of a grimy brick wall in the neighborhood she'd grown up in—the Westside flats. Back then, the real ciphers weren't alphanumeric; they were the cryptic whispers, the hand signs, the coded graffiti that told you where the dangerous turf lines were, or which pawn shop was a police trap.

She was sixteen, standing outside a dimly lit bodega. Her younger brother, Marcus, needed medicine. The neighborhood boys were talking—a rapid-fire



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exchange that sounded like nonsense to an outsider. Janiyah caught it, though: a subtle shift in rhythm, a deliberate misspelling of a street name, a pause that meant 'danger, but opportunity.' She'd learned to read the code, not just to survive, but to navigate the hidden economy of trust and betrayal that kept her family afloat.

The street was her first cryptographer, teaching her that every pattern, no matter how chaotic, was governed by a rule—a key. If you found the rule, you found the truth.

The memory grounded her, wiping away the lab's high-pressure static. Find the pattern, Janiyah.

She returned to the glowing sequence: **GZXXF**. It appeared multiple times. She calculated the distance between the repetitions of **GZXXF**—15 characters, 45 characters, and 60 characters.

“The factors of those distances are 3, 5, 15,” she murmured, her mind running the probability matrices. “The common divisor, 15, is highly probable as the key length, L.”

$$L = \text{GCD}(\text{distance}_1, \text{distance}_2, \dots)$$

She applied the Kasiski examination—the scientific method of identifying the key length in Vigenère—

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to prove her theory, using the repeating trigrams. It confirmed the length: L=15.

“Director, the key is 15 characters long,” Janiyah announced. “I’m separating the ciphertext into 15 distinct columnar groups. Each group is now a simple Caesar cipher, and I can use standard frequency analysis on the English letter probability distribution.”

The screen split. Fifteen columns of jumbled letters appeared. Now the work began: solving fifteen separate substitutions simultaneously. She didn't need the whole keyword, only enough to break the first critical word—the location.

The Pursuit of the Key

Janiyah knew the criminals' operational habits. Their keywords were usually military jargon, city names, or, most commonly, the codenames of their leaders. She ran a dictionary attack against the 15 columns, prioritizing the top 10,000 military terms.

Nothing.

She tried geopolitical locations.

Nothing.

The clock on the wall glared: 3:15:00.

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The pressure intensified. She slammed her hand down on the desk, startling herself. She was running on the GSD's playbook, trying to fit the crime into a box. These criminals were known for their arrogance. They would use something personal, something they felt was untouchable.

“Think like them, Janiyah. Think like a low-life trying to make a name for himself.”

A sudden, sharp memory: A rival gang leader in her youth had named his crew's meeting spots after the only two things he respected—his mother and his favorite brand of cheap whiskey. “Personal arrogance,” Janiyah whispered, leaning forward. “I’m running a profile-based dictionary sweep. Cross-referencing known aliases for the prime suspect, *The Machinist*, with common nouns he’s used in past, less secure communications.”

Suddenly, the tenth column, which began with the letter \text{Q}, flickered. Janiyah had targeted the suspect's childhood street name: GRINDER.

Using the Vigenère formula for decryption, $D_i = (C_i - K_i) \pmod{26}$, where C is the ciphertext letter and K is the key letter, the first character of the ciphertext block (Q) combined with the first key character (G) yielded:

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$$D_i = (16 - 6) \pmod{26} = 10 \text{ (K, which is } 11^{\text{th}} \text{ letter)}$$

Wait. The 11th letter is L. The system confirmed the first word of the decrypted message was a location.

The entire message snapped into coherence, the jumbled letters resolving into chillingly clear English. The keyword was indeed *GRINDER*. The criminals, steeped in hubris, had used the nickname of their central figure.

The decrypted message:

**"LOCATION DELTA FACILITY CODE 73.
TRANSFER OF PACKAGE ZERO TO
COMMENCE AT 0400. TRANSPORT
SECURED. EXPECT ZERO RESISTANCE.
DEEP COVER IN PLACE. DELIVER
PACKAGE ZERO TO DOCK FOUR."**

The Shadow Emerges

Janiyah inhaled sharply, the mission location now concrete. *Delta Facility Code 73*.

“Director Hayes!” she barked into the microphone. “The code is broken. Key: GRINDER. Target location is *Delta Facility Code 73*. Transfer commences in 3 hours, 15 minutes! They expect zero

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resistance—they have an insider, a deep cover agent.”

The silence on the line was thick with the weight of global security. “Understood, Agent,” Hayes’s voice returned, now sharp and decisive. “You just saved us half a day of chaos. Delta Facility is a secure black site. The deep cover agent is our priority now. Field teams are mobilizing immediately. The police and military special units are being briefed with the location. Your work here is done, Shadow Agent.”

Janiyah leaned back, the tension finally easing. “Shadow Agent!” It was a title earned, not given. The name was new, whispered by GSD brass after her successful, completely untraceable infiltration.

She looked at her hands—hands that had once scraped knees in the gutter, now operating tools of global power. The girl from the ghetto, the one who had to read ciphers just to get home safe, had become the one who decrypted the world’s greatest threats.

The Aftermath and the Next Threat

Within the next two hours, live satellite feeds confirmed the action. Police and GSD strike teams moved into Delta Facility Code 73. The transfer was intercepted, the crime foiled, and the leader, The

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Machinist, arrested due to the trail Janiyah's decryption had provided.



Janiyah watched the news coverage on a secure channel—a brief, anonymous report about a “major interception” by law enforcement. Her name, her work, and the Vigenère method she used, remained hidden in the shadows, just the way she needed it.

The evening light streaks the horizon. Janiyah closed down the terminal, preparing for the inevitable

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paperwork. One crisis solved. One day saved. It was long, but it eventually had an end, like every other day.

Days later, as she reached the door of her office, her secure comm unit buzzed. A new encrypted file arrived, tagged: *PROJECT GATES*. It wasn't a military cipher this time. Attached was a complex diagram—angles, vectors, and impossible trajectories. It was geometric, almost artistic, in its malicious complexity.

Janiyah stopped, her hand on the cold steel of the doorframe. The criminals, she realized, were learning. They wouldn't repeat the Vigenère mistake.

“Hyperbolic geometry,” she muttered, a new challenge stirring her blood. “They’re using mathematics to hide their physical movements. Smart.”

She pulled her tablet out, tapping the new file. The first step into her next assignment—the next Shadow Agent episode—had already begun.



Chapter 2: Geometry of a Lie



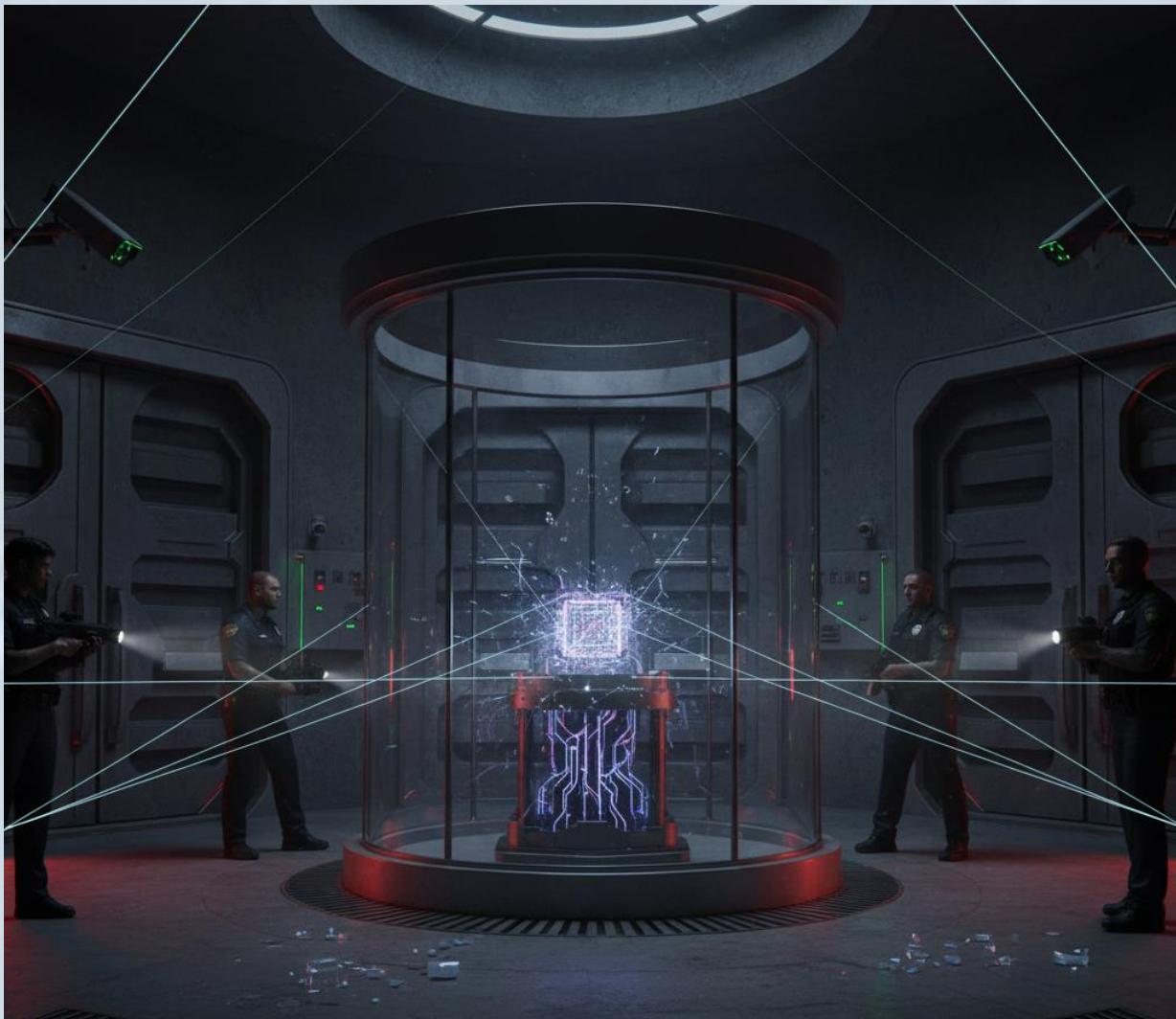
The adrenaline crash from the Vigenère decryption was immediate and severe. Janiyah sat hunched over her station, a lukewarm cup of synthetic coffee cooling beside the holographic projection that was currently mocking the fundamental laws of physics.

PROJECT GATES was the GSD's internal codename for the impossible theft. The target: the crystalline data core known as the 'Archivist,' stored in the subterranean, fortified vaults beneath the city's Central Reserve. Surveillance logs showed perfect security—no alarms tripped, no doors forced, no thermal anomalies. Yet, the Archivist was gone.

The only piece of evidence was the intercepted schematic, a file left behind by the thieves, perhaps in an act of calculated arrogance. It projected into the air above Janiyah's desk—a vibrant, swirling diagram composed of arcs, overlapping planes, and lines that seemed to bend inward toward a non-existent center.

Janiyah ran the digital file through a standard Euclidean solver. The system choked immediately.

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“Error 404: Physical Impossibility. Trajectories violate all known spatial mechanics.”

“No kidding,” Janiyah muttered, pushing a hand through her short, unbraided hair.

Director Hayes’s voice crackled from her headset, laced with frustration. “Agent, the Pentagon is calling this a complete failure of security. They are demanding answers. That data core contains two centuries of diplomatic secrets. How can an object vanish from a vault designed to withstand an orbital strike?”

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Janiyah pointed a stylus at the projection. “They didn't tunnel, Director. They didn't fly. They exploited a mathematical weakness in our reality model. Look at this.” She zoomed in on three intersecting points. In a standard map of the vault and its surroundings, these points formed a triangle.

“In our world,” she explained, “the sum of the internal angles of this triangle is 180^0 . A straight line is the shortest path between its vertices.”

But her terminal's analysis showed the actual measurement of the interior angles was only 155^0 .

$$\Sigma \text{ Angles} < 180^0$$

“This isn't simple geometry, Director. This is Hyperbolic Geometry,” Janiyah stated, the term echoing the gravity of the challenge. “They didn't move through space; they warped our perception of it. They created a localized field where space itself curves negatively, like the surface of a saddle. In that warped space, the path they took—which looks like a jump or a vanished point to our Euclidean sensors—was, mathematically, the shortest distance.”

Hayes paused. “I need that translated, Agent. They bent reality to steal a hard drive?”

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“Essentially, yes. The entire surveillance grid assumes a flat, Euclidean world. But in a negatively curved space, through any point not on a line, there are infinitely many lines parallel to the original. This means that if they controlled the curvature, they could make their path appear to diverge endlessly from our sensors, even when they were moving in a ‘straight line’ within their generated field.”

Janiyah initiated the model transformation. She couldn't work with the curved space directly; she



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needed to project it onto a solvable map. She chose the Poincaré Disk Model, a standard mathematical tool that renders infinite hyperbolic space onto a finite circle.

As the projection materialized—a vast, tessellated disk where all the "straight lines" (geodesics) were represented by arcs bending sharply inward—Janiyah began the tedious process of mapping the criminals' trajectory points onto the model.

The Survival Calculus

The task was dizzying. Janiyah had to re-learn how to perceive straightness. The geodesics on the disk were curved arcs, not straight edges. She had to locate the shortest path between the vault entrance and the known exit point (a small, abandoned substation five blocks away) within the warped metric defined by the criminals.

The intense focus required to track the bending geometry brought forward a sharp, visceral memory from her youth—a memory where math was the only thing that made sense.

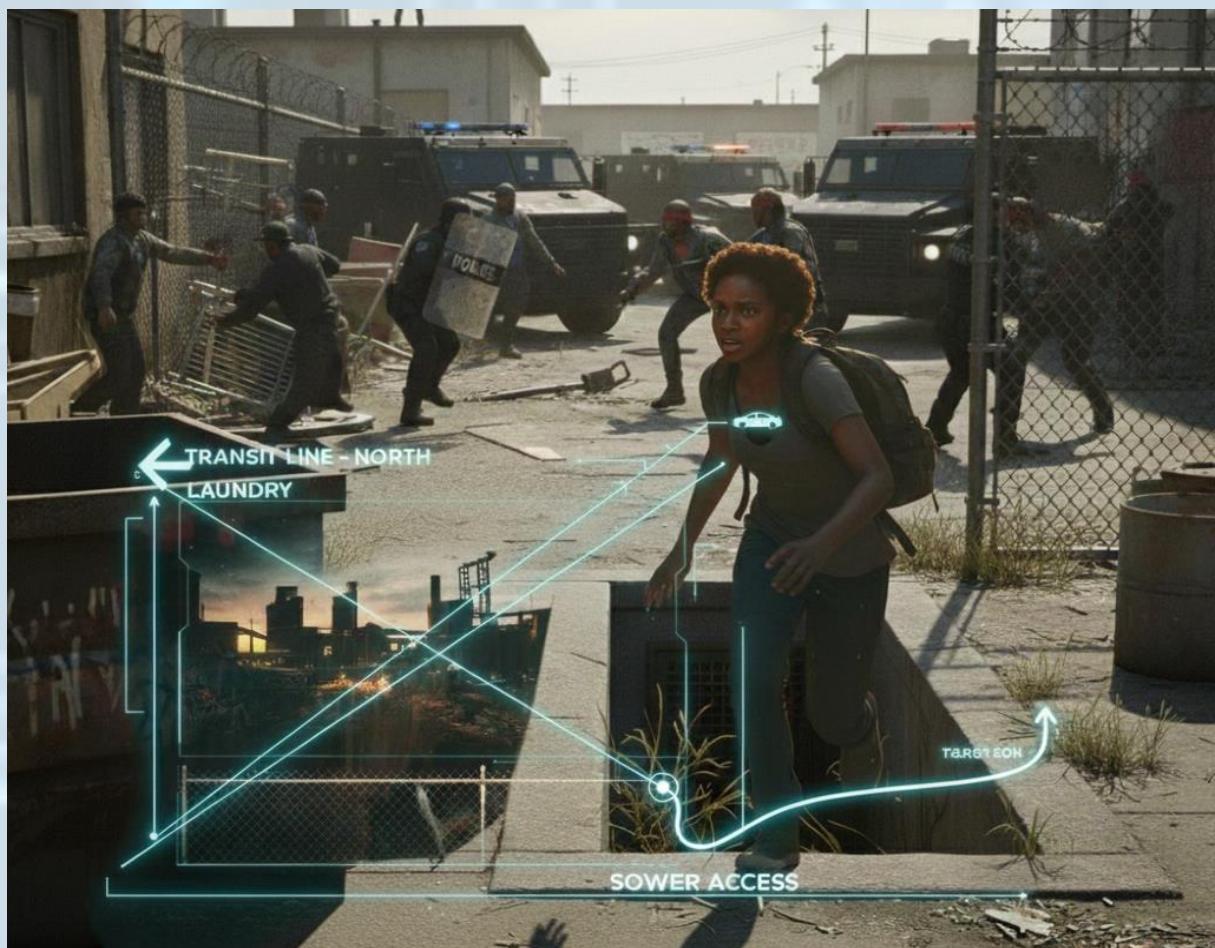
It was the height of summer, brutal and suffocating. Sixteen years old, Janiyah was trapped between two rival factions after a misunderstanding in a neutral zone. Running was futile; every street corner, every

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alley, was a potential ambush. She ended up crouched behind a rusted dumpster, listening to the muffled shouts.

A cop car was parked two blocks east—a static, predictable point. The gang lookout was on a rooftop two blocks west—a high-angle threat. She needed to get to the main transit line, which was due north.

She didn't use angles and degrees; she used relative velocity, risk analysis, and line-of-sight geometry. She saw the problem as a high-stakes, time-sensitive equation: Find the point, P , that minimizes the time exposed to both threats, T_{exposed} , while maximizing the distance traveled toward the goal, D_{goal} .



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The solution wasn't the expected path down the middle of the street. That was the Euclidean path—the fatal assumption. The solution was the unexpected: a diagonal dash through an abandoned laundry yard, a jump over a low-slung chain link fence, and a final sprint down a sewer-access path—a path so obscured and convoluted that no one would bother to watch it.

She remembered the triumphant rush of clearing the fence, her lungs burning, realizing that the only difference between the gang's strategy and her own escape was the intent. They used geometry to trap; she used geometry to be free.

The reflection provided the necessary shift in perspective. The criminals in PROJECT GATES were not using this geometry to simply hide their path; they were using it to make the shortest path unthinkable to a person using a standard map.

Finding the Curvature Constant (κ)

“I need their constant,” Janiyah murmured, her fingers flying across the input surface. “The curvature constant, κ . If I don’t know the exact negative curvature of the space they generated, I can’t calculate the true shortest path, the geodesic.”

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The geometric schematics were vast, but they did not explicitly state κ . This was the true defensive layer.

Janiyah instructed the GSD forensic team at the vault site to check for the most minute environmental anomalies. "I'm not looking for dust or fibers. I need wave distortions. Low-level electromagnetic or gravitational residuals. Anything that suggests a temporary, powerful localized field was active."

Hayes sounded dubious. "You're asking for remnants of a temporary physics experiment, Agent."

"Yes," Janiyah confirmed. "A strong negative curvature field needs massive power and precise frequency generation. When they shut it down, there will be ripples. We need the *Ricci curvature tensor* residual, or something close to it."

Hours bled into minutes. The forensic team, following Janiyah's highly specific, math-driven instructions, finally transmitted a data burst: a faint, cyclical gravitational anomaly detected in a sub-floor conduit adjacent to the vault.

The data stream was noisy, but Janiyah's system filtered it down to a consistent variable, related to the manipulation of spacetime. It was the criminals'

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subtle signature, the equivalent of a fingerprint in physics.

The number resolved: $\kappa = -0.015$.

Janiyah integrated the curvature constant into the Poincaré Model projection. The geodesic paths on her screen snapped into focus.

The Geodesic Path

The shortest path in the Hyperbolic field, the geodesic, was now clear.

Janiyah pointed to the screen. "Director, forget the doors, the walls, and the streets. The thieves entered the Hyperbolic field at Point A—the vault. They moved along this curve, the geodesic, which appears to us as a sharp, instantaneous turn, but which was straight to them."

"Where does it lead?" Hayes demanded.

"It exits the Hyperbolic field at Point B. On a standard map, Point B is a small, abandoned hydroelectric pump station, 70 meters south of the vault, located directly beneath the city's primary wastewater overflow tunnel."

The location was absurd. It was dark, foul, and structurally unsound—a place no human would willingly enter, much less use for a high-stakes

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robbery exit. It was the physical embodiment of the unconsidered path.

Janiyah explained, "This pump station is the only physical location whose coordinates, when projected into a negatively curved space with $\kappa = -0.015$, align perfectly with the exit point of the shortest, mathematically defined path from the vault. They knew no one would look there because it's impossible on a 2D map. They used math to hide in plain sight."

The Hidden Path

As Janiyah provided the coordinates, the complexity of the crime resonated deeply. This was beyond simple robbery; this was an exercise in power—the ability to manipulate reality and use knowledge as a weapon. It reminded her of the deep, systemic injustices she fought against.

She had seen math used against people for years. Predatory loan sharks used compound interest—a simple exponential curve—to enslave entire families. Zoning laws and gerrymandering, simple applications of administrative geometry, were used to confine poverty and opportunity. The system was rigged, not by brute force, but by the cold, precise application of numbers.

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She went to school, studied relentlessly, and excelled in sciences and engineering, not just out of love for the subject, but out of a fierce need to understand the equations of power. She realized the only way to beat the system, to help the people being exploited, was to be the one who could read the finest print in the largest equations.

She fought not just crime, but the mathematical arrogance that enabled it. PROJECT GATES was just a high-level version of the street corner geometry she'd mastered years ago: finding the hidden path to break the trap.

The Climax

"They are still in transit, Director," Janiyah said, snapping back to the present. "It takes time to exit that field and secure the package, even on the geodesic. You have a two-minute window."

Special Forces teams, acting on Janiyah's hyper-specific coordinates, descended into the abandoned pump station. The ensuing engagement was swift and decisive. The criminals, four highly trained individuals, were apprehended just as they were preparing to breach the final sewer access grate, the Archivist data core secured in a metallic travel case. Their mathematical shield was useless against an opponent who spoke their language.

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The GSD recovery team found a series of portable, advanced frequency emitters at the pump station—the very devices used to create the localized hyperbolic field.

Director Hayes's voice, now jubilant, returned. "Agent Janiyah, you just saved two centuries of delicate peace negotiations. Their 'impossible' science was their undoing. No one in the history of this agency has ever solved a breach of this nature, let alone in under four hours."

Janiyah simply unplugged her headset. The praise was secondary. She walked over to the window, watching the city lights blur into the distant morning fog. The criminals were geniuses who had forgotten one critical lesson: if you use math to hide, you must assume someone else used math to find you.

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The Shadow Agent had done her job. But the exhaustion was profound, a clear sign that the war against calculated evil was never truly over.

Barely a week had passed since the last mission was solved, Janiyah looked at the new message blinking on her secondary tablet—a file marked TRACE ALPHA. It contained blurred satellite photos of a remote chemical plant and a detailed spectral analysis report. The next crime was already waiting. It involved forensic science, not mathematics.

“I know the equations of power,” she thought, picking up her coat. “Now, I need to know the chemistry of deception.”



Chapter 3: The Ghost in the Sample



The air in the decommissioned chemical plant was sharp, metallic, and impossibly sterile. The site, a sprawling complex of skeletal steel frames and rusting containment vessels, should have been rank with residual chemicals and decay. Instead, it was silent, odorless, and clinically clean—the hallmark of an operation scrubbed by a professional.

Janiyah stood in the center of what the GSD field team designated as ‘Zone Gamma,’ where the Hyperbolic Emitters from the previous heist had been housed. Dust motes danced in the solitary shaft of light slicing through a broken ceiling vent, yet when Janiyah ran a gloved hand across a nearby console, the surface was eerily slick. Not with residue, but with an absolute, unnatural cleanliness.

“The preliminary report is grim, Shadow Agent,” said Agent Marcus Cole, the head of the local forensics division, approaching her with a tablet displaying a series of negative readings. “No prints, no fibers, no DNA. We ran the full spectrum—UV, thermal, chemical vapor. Zero. Whoever handled the cleanup used military-grade sealant removers and

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sterilants. They didn't just clean; they erased. We are calling this a dead end."

Janiyah nodded slowly, her dark eyes scanning the room, ignoring the obvious emptiness. "Perfection is a lie, Agent Cole," she said, her voice barely above a whisper. "And absolute sterility is the biggest red flag in forensics. An industrial site, even abandoned, generates detritus—pollen, micro-abrasives, trace elements of the environment. To remove everything requires a counter-agent. And that counter-agent, no matter how sophisticated, leaves its own shadow."

The criminals who hired the Ghost Agent to clean this staging point were panicking. They knew the Emitters Janiyah helped seize were the key to linking the organized crime syndicate to their technological masters. The Ghost Agent's mission was to sever that link. And they were damn good at their job.

"Where is the one place they couldn't clean without dismantling the building, Agent Cole?" Janiyah asked, pointing not at the floor, but up at the intake grille for the main ventilation system, high on the wall. "They focused on surfaces, on touchpoints. But when a cleaning agent volatilizes, its aerosols. And where does the air go?"

Janiyah spent the next hour meticulously removing the filter from the ventilation system and scraping

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every particle of built-up gunk from the ductwork behind it. She bagged the samples herself—hundreds of grams of concentrated dust, grime, rust flakes, and residual airborne pollution—the literal breath of the abandoned factory.

The Anatomy of the Micro-Shadow

Back in the GSD's secure lab, the contrast between the sterile environment Janiyah had just left and the chaotic beauty of her science station was jarring. She loaded minute portions of the filter material onto specialized stubs. This was no job for simple magnification; she needed to look beyond light and color and see the fundamental composition of matter.

Her primary tool was the Scanning Electron Microscope (SEM), an engineering marvel that uses a focused beam of electrons to scan the surface of a sample.

“We’re looking for industrial residue,” Janiyah explained to the supervising lab tech. “Something the solvent couldn’t dissolve, and the vacuum couldn’t pull out. Something persistent.”

Hours crawled by, defined only by the rhythmic whine of the vacuum chambers stabilizing the samples. Janiyah sat hunched over the monitor, the SEM providing breathtaking, high-magnification

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images of the dust—a lunar landscape of crystalline shards, pollen grains, and tangled synthetic fibers.

She was searching for the outlier—the particle that did not belong to the chemical plant, the surrounding foliage, or the generic city air. She focused on



inorganic clusters, fragments that resisted the natural wear of the environment.

After cycling through dozens of samples, Janiyah spotted it: a cluster of perfectly cubic microcrystals clustered around a fragment of common Nylon

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polymer. The cluster was barely one micrometer across—invisible to the human eye, but blazing under the electron beam.

She isolated the particle cluster and activated the Energy Dispersive X-ray Spectroscopy (EDS) unit, the forensic tool that reveals a material's atomic fingerprint. When the electron beam hits a sample, it causes the atoms to emit X-rays at characteristic energy levels. The EDS detector measures those energies, telling Janiyah precisely which elements were present.

The EDS spectral analysis painted a vivid picture: Silicon, Oxygen, Iron, and a significant, unusual spike in Aluminum (Al) and Copper (Cu).

“Iron, Silicon, and Oxygen—that’s rust and dust. Normal,” Janiyah narrated, her breath catching as she pointed to the two spikes that were definitely not normal. “But the Aluminum and Copper? In that exact ratio? That’s not natural. That’s synthetic. It’s an alloy signature.”

She was looking at the ghost's trace—a speck of metal alloy, likely chipped off a piece of specialized equipment used during the cleanup. The cleaning agent had vaporized, the solvents had evaporated, but the wear and tear on the Ghost Agent's tools had left behind this indelible signature.

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The Conviction of the Smallest Detail

As the EDS spectrum confirmed the unique Al/Cu ratio, a memory, powerful and vivid, surged forward, connecting the high-stakes global spy game to the low-stakes injustice of her past.

Janiyah was only fourteen, living in the shadow of the crumbling projects. Her neighbor, an elderly woman named Mrs. Elena, had her small life savings

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stolen—a petty crime, but devastating. A local boy, known for minor offenses, was the immediate suspect. The police were eager to close the case; he fit the profile.

Janiyah, already a keen observer and a budding science enthusiast, refused to accept the easy answer. The boy claimed he was nowhere near Mrs. Elena's apartment. He claimed he was working. He cleaned commercial kitchens for a few dollars under the table.

Janiyah visited the kitchen where he worked. It was near the city's industrial park—miles away from the projects. When she examined the boy's worn-out work boots, she didn't look at the mud; she looked at the residue embedded deep in the sole treads. She collected a tiny, sticky smear.

She didn't have an SEM, but she had a cheap microscope, a kit of chemical test strips from a school science fair, and relentless curiosity. She tested the stain: not grease, not common soil. It was a polymer compound mixed with trace metals—a unique chemical fingerprint used in the high-heat, high-abrasion polish for industrial stainless-steel vats. A compound used only in that commercial kitchen district, miles away.

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She brought her findings to the lead investigator, a detective who initially dismissed the earnest, scientifically-minded girl from the ghetto. But Janiyah was persistent, armed with her crude, yet



accurate, chemical analysis. The detective was forced to check the boy's alibi, which proved true. The real thief was found weeks later—an outsider who had staked out the neighborhood.

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The moment of realization in the detective's office had been seismic. The massive system, with its resources and power, had been willing to convict an innocent person based on prejudice, while the truth lay in a microscopic smear on a shoe. The largest injustices were often built upon the failure to examine the smallest evidence. From that day on, Janiyah's path was set: she would use the cold, impartial logic of science to fight for justice, proving that the truth always resided in the details nobody else bothered to see.

The Trace to the Ghost Agent

The memory galvanized Janiyah. The Aluminum-Copper signature was her boot-stain. She immediately cross-referenced the unique Al/Cu alloy ratio—not just for cleaning solutions, but for specialized industrial apparatus. The data base flagged it: the alloy was a proprietary blend used in the construction of high-performance, magnetic-sealing nozzles for the "Sentinel Elite" series of deep-cleaning decontamination units. These units were not sold on the open market; they were leased exclusively to a handful of global corporations and, most notably, to three elite private security contractors specializing in rapid, high-level logistical support and decontamination for high-value targets.

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One of the three contractors immediately jumped out: Aegis Solutions. “Aegis Solutions,” Janiyah informed Director Hayes. “They provide logistical support and security detail for the Global Policy Summit next week. They have high-level clearances and access to communication schedules. The Ghost Agent isn’t a cleanup crew; they’re a security professional who used their legitimate tools to cover their tracks.”

Janiyah focused on the Aegis Solutions roster. She applied a predictive model based on the known personality profiles of the crime syndicate—they favored meticulous, detail-oriented operatives with access to sensitive infrastructure.

The model returned one prime suspect: Serafina Voss, Aegis’s chief logistics coordinator. Voss had a perfect record, clearances in multiple jurisdictions, and, critically, access to the GSD’s transport schedule for the two prisoners arrested from the previous heist called *PROJECT GATES*.

“She’s not just a cleaner, Director,” Janiyah stressed. “She’s trying to retrieve their assets. Check the transport schedule for the two prisoners from Delta Facility.” GSD analysts immediately cross-referenced Serafina Voss’s current movements with the prisoner transport route. Voss, acting entirely

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within her capacity as an Aegis coordinator, had subtly inserted herself into the transport chain, requesting a last-minute routing change due to an alleged "minor traffic incident."

The change would divert the armored convoy through an unsecured, remote industrial corridor—the perfect location for an ambush and extraction. The ambush was scheduled to occur in less than ninety minutes.

The Capture

Janiyah provided the precise time and coordinates of the planned extraction point. The GSD acted instantly, swapping the two actual prisoners for GSD tactical agents.

When Serafina Voss and her small, heavily armed team arrived at the designated corridor, they found the armored transport awaiting them. But instead of two chained prisoners, they were met by a fully mobilized counter-assault team.

Voss was apprehended on site. When the GSD searched her private transport, they found a Sentinel Elite decontamination unit—and confirmed that its magnetic-sealing nozzle was the source of the unique Al/Cu alloy Janiyah had traced.

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Director Hayes called Janiyah back to the lab, his voice filled with a mixture of awe and relief. “Agent Janiyah, you saved the lives of a dozen of our men and prevented a global security leak—all because of a dust particle one micron wide. How did you know to look for trace industrial waste?”

Janiyah looked at the complex chemical spectrum still displayed on her monitor, the colorful spikes representing the ghost's undoing.

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“Because,” she said, her voice quiet but firm, “the people who run the world believe that if a problem is too small to see, it’s not worth solving. But I grew up in the small spaces, Director. The truth always hides there.”

She closed the forensics program. The Ghost Agent was caught, the connection severed.

One day, as she was preparing her end of day work report, she was interrupted by a call to check her mail. The call was from an unknown caller. She hurried up with the report and was done with it. But as she powered down the monitor, her secure terminal pinged again. The new file was marked: PROJECT ECHO. It contained bizarre, non-linear recordings of human speech and seismic vibrations, too distorted to be intelligible. Janiyah recognized the pattern immediately: the sonic chaos looked like a problem of frequencies, distortion, and logic.

“Cipher, geometry, forensics...” Janiyah mused, a fresh challenge lighting her eyes. “Now, it looks like they’re trying to use logic and sound to create their next crime.”

The fight against the scientifically sophisticated syndicate was escalating. Janiyah prepared her mind for the next project.



Chapter 4: The Logic of the Echo



The exhaustion from three consecutive high-stakes missions—crypto-decryption, hyper-geometry, and forensic trace—had settled deep into Janiyah's bones, but the file marked PROJECT ECHO demanded immediate attention. The two previous syndicates Janiyah had dismantled were clearly branches of a larger, scientifically advanced organization that was now reacting to the loss of their assets.

PROJECT ECHO wasn't a static schematic or an encoded message; it was an audio file, paired with complex, nonlinear spectral graphs. The audio itself was pure chaos: discordant blasts of static, human speech warped into non-intelligible noise, and strange, rhythmic seismic pulses that defied conventional recording logic.

“This is an attack on communication itself,” Janiyah observed, staring at the complex graphs projected onto her workstation. The graphs mapped sound frequency against time, but the resulting curves were erratic, forming jagged, seemingly random patterns that looked like a child’s scribbling.

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Director Hayes was already on the secure line, his patience worn thin. “Agent, we intercepted this signal being beamed into the headquarters of the Global Data Exchange (GDX). We've had a total security lockdown, but their primary systems are showing signs of deep cognitive dissonance—errors, miscalculations, and illogical decision-making. We believe this sound is a form of psycho-acoustic warfare designed to introduce systemic confusion.”

Janiyah zoomed in on a segment of the graph. The audio, when isolated, contained bursts of highly compressed human speech, repeated and layered with destructive interference waves.

“They aren't trying to transmit data or codes, Director. They're trying to transmit illogic,” Janiyah hypothesized. “The seismic pulses are low-frequency, well below the human hearing threshold, designed to vibrate through infrastructure. And the speech is layered with non-Euclidean sound physics—it's designed to confuse systems that rely on linear, causal audio input.”

Psycho-Acoustics and Formal Logic

Janiyah realized the problem wasn't merely physics; it was Applied Logic. The criminals had engineered an acoustic paradox—a message that, when decoded, forced the listening system (or human

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mind) into a circular argument or a contradiction, thereby creating a systemic vulnerability.

Janiyah first had to stabilize the distorted signal. She would use advanced Fourier Analysis to decompose the complex sound wave into its constituent sine waves. The goal was to filter out the destructive interference and isolate the original, embedded human speech.

Once the speech was isolated, Janiyah would analyze the decoded message for Logical Paradoxes (e.g., statements like "The next instruction is false" or "Every step you take is a mistake"). The ultimate goal was to find the *key logical flaw* the criminals had introduced and use it to predict their next move.

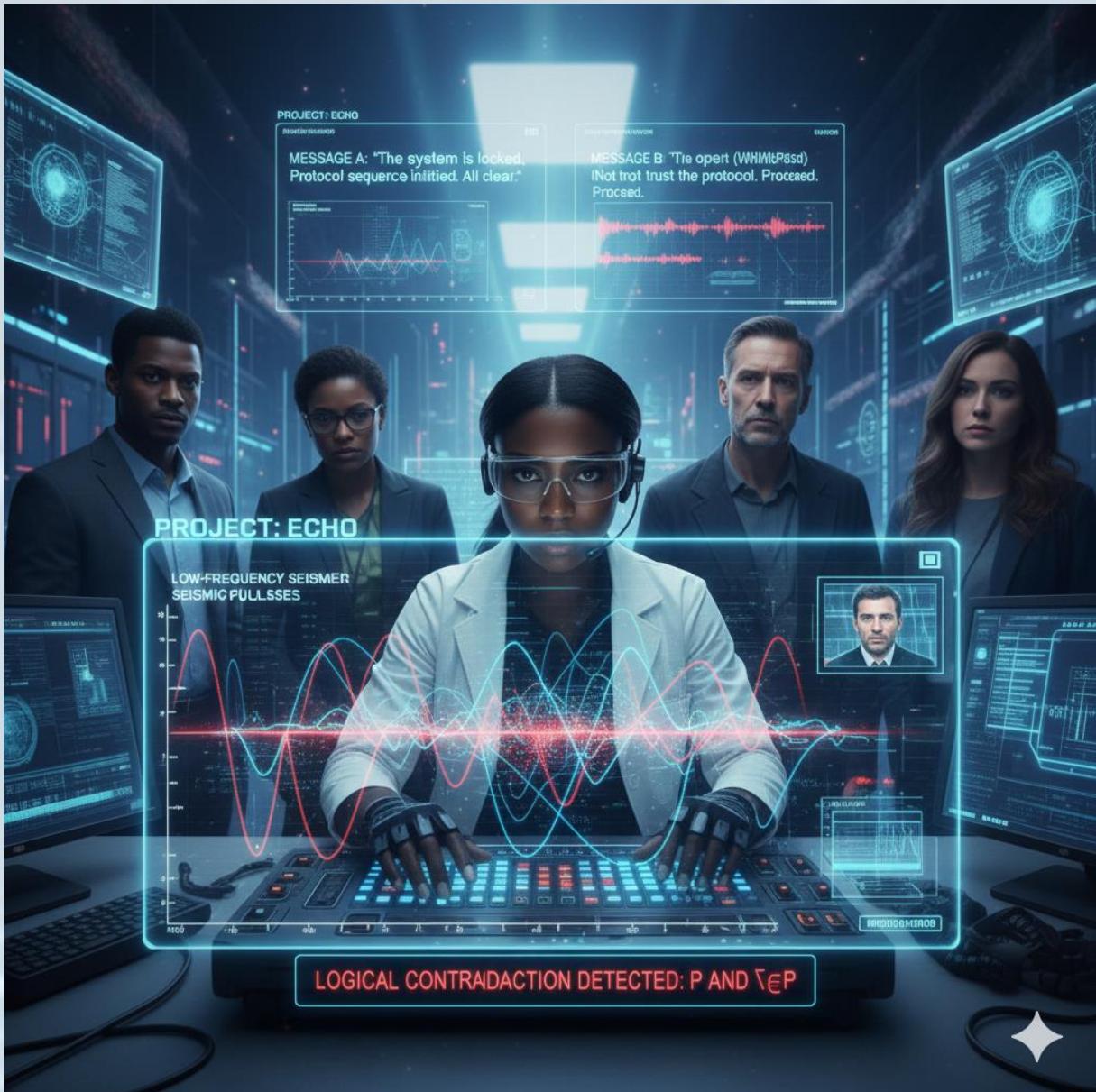
The Systemic Contradiction

The first step was sound wave deconstruction. Janiyah loaded the signal into her specialized audio workstation.

"The key is the interference wave," Janiyah explained to a baffled analyst watching her work. "They recorded human speech, then generated a second, precise wave that is 180^0 out of phase with the original—a destructive interference pattern that cancels out most of the signal. But they didn't cancel

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all of it. They left tiny, non-linear remnants—the echoes.”



Janiyah's software began the complex process of Fourier Synthesis, rebuilding the original, stable signal from the wreckage. She separated the audio into two main components: the low-frequency seismic hum and the high-frequency speech corruption.

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After thirty minutes of agonizing digital filtration, the chaotic static resolved. The underlying seismic hum was a rhythmic, pulsing pattern designed to mimic the exact structural resonance of the GDX data vault foundation—a subtle physical destabilization.

More critically, the corrupted speech resolved into two distinct, layered messages, spoken simultaneously:



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Message A: "The system is locked. Protocol sequence initiated. All clear."

Message B (Whispered, slightly delayed): "The lock is open. Do not trust the protocol. Proceed."

Janiyah froze. The messages were designed to be heard concurrently, creating an immediate, crippling conflict in any listening system. The human mind might filter one out, but the GDX systems, designed to process all valid input, were receiving a definitive logical contradiction: P and $\neg P$ simultaneously.

This was the source of the GDX system's 'cognitive dissonance.' Their automated decision-making processes were paralyzed, forced to accept two mutually exclusive facts as true.

The Logic of the Ghetto

The problem resonated with a cold, clear clarity in Janiyah's mind—a memory of navigating the complex, illogical rules of her childhood environment.

She was eighteen, newly graduated, applying for scholarships. She approached a community mentor for a letter of recommendation. The mentor, a well-meaning but jaded man who ran the neighborhood center, looked at her application—perfect grades, science awards, stellar references—and said two

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things that contradicted everything Janiyah believed to be true:

“You’re too smart for this neighborhood, Janiyah. You have the logic of success,” he’d said.

Then, he’d smiled bitterly and added, “But this place taught you the logic of failure. Don’t forget that. The only way to win their game is to understand the logical loops they build to keep you out. They write the rules so that A is true, but following A guarantees B, and B is the failure they designed for you.”



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He had explained that systems, even well-meaning ones, were often built on internal paradoxes: rules that sounded good but created inevitable traps. You had to find the meta-logic—the rule that explained the failure of the original rules.

Janiyah had taken that lesson to heart. She got the scholarship, but she never forgot that the logic she learned in school was clean, while the logic of the world was full of contradictions, designed to trap.

The GDX system was now facing its own paradox. They were trapped because their rules dictated that both messages must be true.

Janiyah realized the key wasn't to decide which message was true, but to analyze the intent of the paradox itself. The criminals didn't care if the system was locked or open; they wanted the system paralyzed.

Finding the Meta-Logic

Janiyah returned to the seismic pulses. The low-frequency pattern was not random; it was a digital heartbeat. She ran a Wavelet Transform on the seismic data, looking for irregularities in the signal's period and frequency.

She discovered a tiny, six-second period where the seismic pulse shifted its frequency by a minute

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fraction—a frequency that, when translated from Hertz (Hz) to its corresponding alphanumeric code (A=1, B=2, etc.), spelled out a single word: GATE.

“Director, the messages are a distraction. The paralysis is the weapon,” Janiyah explained, her voice gaining urgency. “The real command is hidden in the seismic vibrations—a single word that acts as a temporal key for the logical paradox. It's the Meta-Logic that governs their movement.”

The criminals had planned for the GDX system to eventually choose the path of maximum safety—to initiate a full, systemic lockdown based on Message A (“System is locked”). This lockdown would involve shutting down power to the main security doors, which were designed to seal permanently in a crisis.

However, the criminals had programmed a secondary, time-sensitive code that would only be triggered if the system initiated the specific sequence of the lockdown.

Janiyah cross-referenced the GATE keyword with the known GDX security protocols. She found it: an ancient, little-used fail-safe program designed to briefly power-cycle the main data-grid gates if the initial lockdown failed—a process that involved

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turning the gates off, then on, leaving them momentarily unsealed.

The logic was fiendishly simple:

1. Send the Paradox: P (Locked) and - P (Open).
2. GDX Logic Chooses Safety: Full Lockdown (\longrightarrow Locked).
3. The Seismic Signal (GATE) provides the silent, time-critical trigger for the fail-safe within the lockdown sequence.
4. The result: GDX believes it is locked down, but the gates briefly power cycle, leaving them open for a precisely measured four-second window.

“They’re not trying to breach the walls, Director. They’re making the walls breach themselves,” Janiyah stated, her mind racing to find the counter. “They are going for the Auxiliary Data Server (ADS), the backup system that remains active during the main lockdown. They’ll be on the move exactly sixty seconds after the system hits the lockdown threshold.”

The Counter-Paradox

Janiyah had the location (the ADS vault, a separate building two blocks from the main HQ), the method (the four-second gate window), and the time. But she

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needed a way to alert the GDX systems without creating a new paradox.

“I need to inject a Counter-Paradox,” Janiyah decided. “Something the system will recognize as true but that forces it to prioritize logic over safety.”

She looked at the conflicting messages: Message A (Locked) and Message B (Open). The system was paralyzed because it treated them as equal inputs.

Janiyah quickly generated a third, synthesized message based on the exact acoustic signature of the criminals' own transmission method:

Message C: "Protocol Sequence is COMPLETE. The LOCK IS OPEN. Verification: Message A is FALSE."

She timed the transmission to hit the GDX system exactly three seconds before the criminals' anticipated arrival.

“The system will register Message C, which contains the criminals’ own acoustic signature. It will recognize the command ‘The LOCK IS OPEN’ but will be forced by the Verification to disregard Message A. By doing this, it resolves the initial paradox (P and $\neg P$) by confirming the reality of $\neg P$ (Open), but it eliminates the logic of the safety protocol.”

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The result was paradoxical itself: The GDX system, now logically coherent, would follow its confirmed instruction: The lock is open. Instead of locking down, it would interpret the situation as a full-scale, unexpected breach and initiate its highest-level, aggressive countermeasure: *The System-Wide Security Flood (SSF) Protocol.*

The SSF Protocol did not rely on doors or passwords. It was a complete power cut to all internal systems, followed by the deployment of fast-acting, non-lethal neurological gas into all sensitive zones. A move designed to neutralize any in-progress intruder within seconds.

The Climax and the Final Logic

Sixty seconds after the GDX system initiated the full lockdown sequence, Janiyah sent the synthesized Message C.

In the ADS vault two blocks away, three of the syndicate's specialists, moving with precision, arrived at the main gate exactly as it momentarily power-cycled, opening the four-second window. They were halfway through the gate when the lights in the entire building plunged into absolute darkness.

Then came the hiss of the SSF protocol. The neurological gas, harmless but instantly debilitating,

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filled the hallway. The intruders, confident in their mathematically generated window, had no time to deploy protective gear. They collapsed, the keys to the ADS vault still in their gloved hands.



Director Hayes watched the live feed from a secure bunker. “Agent, they believed they had paralyzed us. You weaponized their own logic against them.”

Janiyah monitored the SSF deployment. “They assumed we would react with our logic, Director—

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the logic of safety and linear causality. They failed to account for a meta-logical move: using their own deception to trigger our maximum defense.”

She closed the audio suite. The GDX was safe, the syndicate's attempt to destabilize the global financial grid thwarted.

Janiyah stood up, her body aching. She knew the work wasn't about ciphers, geometry, or sound waves. It was about seeing the world through the lens of the trap. She, the girl from the ghetto who mastered the illogical rules of survival, was now the GSD's master of counter-logic. She was the one who could find the flaw in the perfect, arrogant equation.

The next day, as the noise of the city returned to its natural rhythm, Janiyah found herself drawn to a single piece of paper left on her desk by a colleague—a heavily redacted field report from a GSD intelligence cell.

It detailed an ongoing, low-level infiltration in a highly sensitive government research facility. The problem wasn't code or geometry, but subtle, repeated errors in logistical supply chains. The report mentioned a strange consistency in the type of errors: miscounted inventory, misplaced components, and repeated, small-scale sabotage of equipment based

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on biometric identification failures. The file was marked BIOMETRIC GHOST.

Janiyah sighed, a small, tired smile touching her lips. The next fight would be against identity itself. She knew exactly what she needed to look for. The fight against the science of crime was eternal, and her unique expertise in the science of the overlooked was its only reliable countermeasure.



Chapter 5: Biometric Ghost



The transition from the abstract chaos of psycho-acoustics to the cold, hard logic of biometrics felt like shifting from philosophy to engineering. The new mission, PROJECT BIOMETRIC GHOST, arrived via a cryptic, heavily redacted GSD intelligence report detailing systematic failures in a high-security government research facility—the Argus Research Core.

The Argus Core houses cutting-edge, classified engineering projects. The problem wasn't a heist, but a campaign of subtle, small-scale sabotage: sensitive equipment was repeatedly miss-calibrated, supply inventories were perpetually off by small, critical percentages, and component failures were happening just often enough to delay multi-million-dollar projects. The only common link: the failures occurred after shifts where the personnel log-in/logout system had registered multiple, failed biometric access attempts for authorized staff.

No one was physically breaching security; the sabotage was being carried out by personnel who were biometrically authorized to be there, yet the

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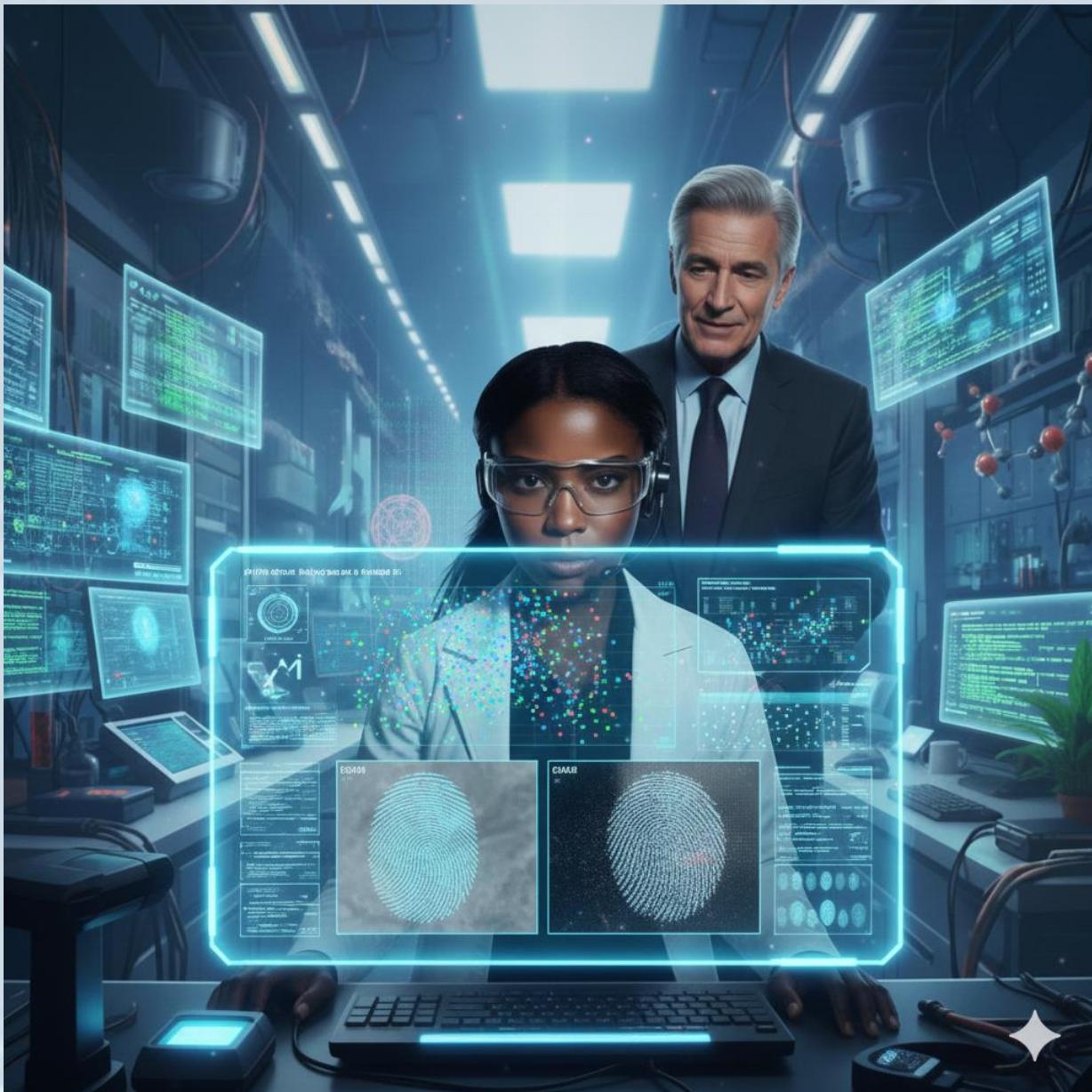
system recorded repeated failures for their access attempts. The core assumption of security—that an authorized fingerprint equals an authorized user—was being exploited.

Director Hayes was beyond frustrated. "Agent Janiyah, we've reviewed the security footage. The individuals logging the failed access attempts are confirmed GSD agents. Yet, five minutes later, a critical piece of hardware is destroyed. We can't fire them without proof, and we can't trust the biometric system anymore."

Janiyah stared at the data: thousands of log entries. Successful Biometric Access (Code 01) followed by Failed Access Attempt (Code 04), logged by the same person, mere minutes apart.

"They're not trying to break the biometrics, Director," Janiyah stated, zooming in on the granular data. "They are cloning and corrupting it. The repeated Code 04 isn't a failure to read a print; it's the system struggling to reconcile two identical, yet structurally different, prints registered under the same user ID. They've introduced a low-fidelity, synthetic print into the system, and it's confusing the primary data. This is an attack on data integrity."

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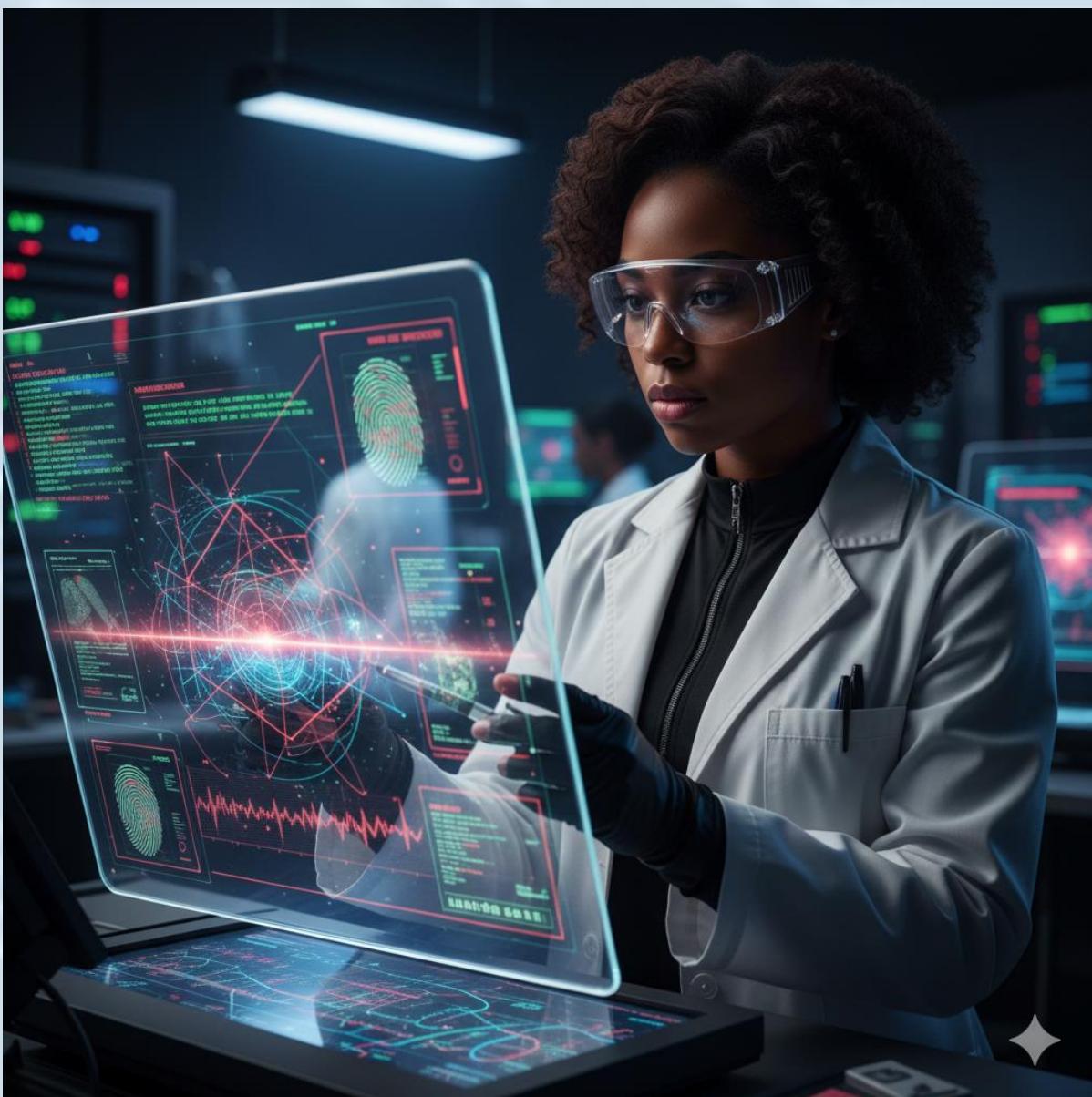
Biometric Spoofing and Data Science

Janiyah's task was to isolate the subtle differences between the authentic biometric data and the spoofed (synthetic) data being injected into the system. She would use advanced Statistical Data Analysis combined with an understanding of Biometric Error Metrics.

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Real, live fingerprints have natural noise—variations in pressure, skin elasticity, temperature, and moisture. Synthetic (spoofed) fingerprints, even highly detailed ones, often exhibit an absence of natural noise or display highly regular, predictable digital artifacts (like uniform pixelation or repeated ridge patterns) because they are computer-generated.

Janiyah will use principal component analysis (PCA) on the raw digital images of the successful Code 01 and failed Code 04 scans. PCA will break



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down the images into key variables (eigenvectors). She will be looking for a tight clustering of features in the spoofed prints—a sign of unnatural uniformity—versus the expected, wider distribution of features in the authentic prints caused by natural human variability.

The Mathematics of Human Error

Janiyah loaded the raw image data from the thousands of logged scans. The volume was immense, but she ignored the success codes. The truth was in the failures.

She initiated the Principal Component Analysis (PCA) algorithm. PCA is a dimensionality reduction technique that finds the directions (principal components) that maximize variance in the data. . Janiyah used it to simplify the complex image data (the location and shape of fingerprint ridges, minutiae points) into a simple, two-dimensional scatter plot, comparing the first and second principal components (PC1 and PC2).

"PC1 will map the general ridge orientation," Janiyah explained to herself, watching the screen. "PC2 will map the density of the minutiae points."

The plot began to form. The dots representing the hundreds of Code 01 (Authentic) scans formed a

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loose, diffuse cloud—the expected scatter of real human interaction with a sensor.

But the dots representing the Code 04 (Failed/Spoofed) scans began to form a dense, unnatural cluster, almost a singular point, deep within the cloud.

"There it is," Janiyah breathed. "The Ghost Agent is generating prints that are too perfect. They lack the small, natural variations—the noise—that proves life. The sensor recognizes the pattern is valid (hence the initial success flicker), but then the system fails (Code 04) because it can't reconcile the lack of natural noise with the genuine profile."

The perpetrators were using sophisticated materials science—possibly a gelatin or silicon mold derived from a genuinely authorized agent's print—but the creation process, the spoofing, introduced a flaw: digital uniformity. The Ghost Agent wasn't defeating the system; they were freezing it in an existential crisis over data integrity.

The Geometry of Injustice

The analysis of biometric authenticity brought Janiyah back to a very personal, deeply felt memory—a time when her own identity was almost erased by the system.

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Janiyah was twenty, applying for her first civilian security clearance after her initial training. She had used a scholarship to attend a prestigious, predominantly white engineering college. Despite her academic excellence, the bureaucratic hurdles were immense. Her background—her residence in a crime-ridden district, the minor police reports involving Marcus, her brother—was flagged as 'high risk.'

She remembered sitting in an interview, where the interrogator, looking at her clean academic record, asked with subtle contempt, "How do we reconcile the Janiyah we see on paper with the neighborhood you came from? There is a severe data inconsistency here."

She had stared back, her voice level. "The data is not inconsistent. The person is authentic. You are applying a prejudicial filter to the variable—my address—and using it to invalidate the constants—my grades, my skills, my dedication. You are confusing noise with signal."

She realized then that for people from her background, survival meant constantly fighting the biometric of poverty—the system's prejudice that insisted her identity must conform to the statistical tragedy of her neighborhood. The system tried to

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impose a uniformity of failure on her life. Her fight was to prove her complexity, her unique, living noise, against the system's simple, manufactured stereotypes.

She got the clearance, but the lesson endured: When



the system wants to fail you, it invents a paradox based on selective, faulty data. To win, you must prove the authenticity of the 'noise' it tries to erase.

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The current crisis was the inverse: the criminals were hiding their sabotage in the absence of noise.

Identifying the Spoofing Source

Janiyah needed to find the original, authentic agent whose print was being spoofed. The Ghost Agent was using this spoofed identity to access supply rooms and destroy equipment, knowing the confusion of the Code 04 error would cover their tracks.

Janiyah filtered the PCA data, isolating the tight cluster of synthetic prints. She then cross-referenced the unique digital artifacts of the synthetic prints with the stored original profiles of the agents associated with the failed entries.

The synthetic prints were cloned from the profile of Agent Leo Vance, a highly respected, mid-level scientist who had recently gained access to all Argus facilities. Vance's access log showed hundreds of legitimate Code 01 entries, interspersed with the sabotaging Code 04 failures.

"The Ghost Agent is using a cloned print of Agent Vance," Janiyah announced. "They are physically placing the synthetic print on the scanner, logging the Code 04 failure, but the system briefly grants them access because the core pattern matches. They

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enter, sabotage the equipment quickly, and leave before the system fully locks them out. The key is how they are obtaining the print."

Janiyah turned her attention to the material science of the spoof. She ran a Thermal Shock Test on a microscopic residue sample collected from the scanner associated with the Code 04 failures. Real skin leaves moisture and heat. Synthetic silicon or gelatin leaves unique thermal residue.

The test revealed trace residues of a specialized, high-viscosity polyurethane polymer—a material used in crafting extremely durable, flexible molds often associated with high-end prosthetic limbs.

"They didn't lift a print from a glass," Janiyah deduced. "They made a physical mold from Agent Vance's hand. To make a prosthetic-grade mold, they need continuous, intimate access to him."

Janiyah ordered an immediate, quiet background review of Agent Vance's entire contact list, personal movements, and external appointments over the last six months. She focused on non-GSD personnel.

The search immediately flagged a monthly appointment Vance kept at a private, high-end rehabilitation clinic specializing in physical therapy and specialized prosthetic fittings. Vance was

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recovering from an old sports injury, and the clinic was run by Dr. Elias Thorne.

The Climax and the Full Circle

Janiyah realized the entire operation was built around exploiting trust and physical access. Dr. Thorne, the therapist, had continuous, ungloved access to Vance's hands and fingers, allowing him to create a perfect, high-fidelity polyurethane mold.

Janiyah needed proof. She couldn't accuse a respected doctor based solely on chemical residue and PCA data. She needed to predict Thorne's next move.

Analyzing the inventory failure logs, Janiyah noted that the recent sabotage attempts centered on the Cryogenic Storage Unit (CSU)—the facility holding the molecular components for the Argus Core's most sensitive project.

"Dr. Thorne is planning a major sabotage tonight," Janiyah warned Hayes. "He's not stealing data; he's destroying the potential for future engineering. His target is the CSU's power couplings."

Janiyah decided on a countermeasure based on data integrity. If Thorne was relying on the system's confused paralysis (the Code 04 error), she needed

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to feed the system a clear instruction that bypassed the confusion.

Working with the Argus Core engineers, Janiyah introduced a small, highly customized patch into the biometric system. This patch had one function: If a Code 04 error is logged by Agent Vance's profile, immediately initiate a mandatory system-wide hardware diagnostic and reset.



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The diagnostic and reset sequence would require all power couplings in the CSU to be manually inspected and securely locked down—a process that would physically interrupt any ongoing sabotage. Crucially, the system was programmed to display the diagnostic message:

"SYSTEM FAILURE: AUTHENTICITY ERROR DETECTED. ALL COUPLINGS MUST BE SECURELY LATCHED BY HAND."

That evening, Dr. Thorne, using the polyurethane spoof, accessed the Argus Core. He logged a successful entry, followed moments later by the Code 04 failure. But instead of paralyzing the system, the custom patch triggered the diagnostic. The main console flashed red with the secure message.

Thorne paused, realizing his timing was off. He rushed to the CSU power couplings to begin his sabotage, only to find the unit already flashing the "SECURELY LATCHED BY HAND" message.

Before Thorne could react, a team of GSD agents, positioned in the maintenance tunnel flooded the scene. Thorne's plans had crashed as the alarms systems all flagged red, and the only viable escape route, was crawling with tactical agents moving in.

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Thorne was apprehended with the polyurethane mold still in his pocket—a perfect, silent clone of Agent Vance's fingerprint, yet fatally lacking the natural noise of life. Janiyah had to take the polyurethane mold as that has become a property of the GSD forensics lab for further examination.



Director Hayes watched Thorne being escorted out. "You didn't just catch him, Agent. You forced the system to expose the fraud using its own internal

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logic. You made the machine recognize the difference between a clone and a person."

Janiyah nodded, the exhaustion finally hitting. She had fought ciphers, geometry, chemistry, logic, and now, identity itself. She had used the mathematics of human variability to save the day, proving that even the most perfect fake is defeated by the authenticity of the imperfect, living truth.

She looked at her own hands, calloused from years of work and study. Her journey, born in the harsh, illogical reality of the ghetto, had given her the unique ability to see the invisible flaws in any system—the smallest piece of evidence, the subtle mathematical contradiction, the absence of human noise.

The Shadow Agent knew the fight was never about breaking down doors; it was about deconstructing the deception. She closed the final file on the screen. The city was quiet now, waiting for the next sophisticated challenge. Janiyah was ready.



Chapter 6: Resonance Trap



The relentless pace of the syndicate's attacks had revealed a terrifying pattern: they weren't interested in simple theft; they were interested in systemic collapse. After failing to paralyze the financial grid and corrupt the research data, their next move targeted the very foundation of the city's infrastructure.

A routine inspection of the North Point Suspension Bridge—the central artery connecting the city to the mainland—revealed a series of minute, repeated micro-fractures in the critical tension cables and support beams. The fractures were invisible to the naked eye and seemingly random, yet their progression suggested a calculated, organized stress. The bridge was still structurally sound, but engineers predicted catastrophic failure within three days if the pattern continued.

The perpetrators weren't physically hitting the bridge; they were attacking its structural integrity using vibration. The goal was to find the bridge's natural resonant frequency and subject it to a synchronized, high-power sonic attack, exploiting

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the principle that sustained vibration at an object's resonant frequency can amplify energy until the object shatters.

The engineers couldn't find the source of the vibration. Sensitive seismic meters only registered minute, ambient urban noise. The attack was too subtle, suggesting the criminals were using a counter-resonance principle to mask the energy source.

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Director Hayes was pacing the operations center; his face etched with strain. “We’ve got a dozen structural analysts and acoustic engineers on site, Agent. They all agree: something is pushing the bridge toward collapse, but we can’t detect the weapon. If this bridge goes, we lose billions, and the civilian casualty estimates are catastrophic.”

Janiyah, back in her high-tech lab, was analyzing the structural telemetry data, ignoring the apocalyptic



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projections. She focused on the stress points in the bridge's main support pylons.

"They aren't using brute force, Director," Janiyah stated, her stylus tapping a point on the holographic model of the bridge's central span. "They are using efficiency. Every object has a Natural Frequency (ω_0), and if you hit it with energy at that exact frequency, the amplitude of the vibrations builds exponentially. It's like pushing a swing.".

Janiyah recalled the collapse of the Tacoma Narrows Bridge—an engineering lesson in the destructive power of resonance. The criminals were aiming for a controlled, engineered version of that disaster.

Structural Resonance

Janiyah's task was two-fold. First, she had to calculate the Natural Frequency (ω_0). Using the known mass and stiffness characteristics of the North Point Bridge's primary components, Janiyah had to mathematically determine the exact frequency that would induce catastrophic structural resonance.

Next, she had to find the Hidden Source (Acoustic Filtering). Once ω_0 was known, Janiyah would filter all urban noise telemetry for that precise frequency, looking for a masked source. She suspected the criminals were using phase cancellation —

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broadcasting a masking sound wave that was 180° out of phase with the bridge-attacking wave, effectively making the entire operation acoustically invisible.

The Mathematics of Collapse

Janiyah accessed the deep engineering blueprints for the North Point Bridge. She focused on the main vertical support cables.

The general formula for the natural frequency of a simple system is given by:

$$\omega_0 = \sqrt{k/m}$$

Where k is the stiffness (or spring constant) and m is the mass. However, a large suspension bridge is a complex distributed mass system. Janiyah used Finite Element Analysis (FEA), a computational engineering technique, to break the bridge structure into thousands of tiny, inter-connected elements.

Feeding the material properties (modulus of elasticity, density, damping coefficients) and geometry into the FEA model, Janiyah ran a full simulation of the bridge's response to various driving frequencies.

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After two hours of intense computational modeling, the result was clear. The frequency that produced the maximum deflection in the critical support beams—the point of catastrophic structural failure—was:

$$\omega_{\text{catastrophic}} \approx 0.175 \text{ Hz}$$

A frequency of 0.175 cycles per second—an incredibly slow, low-frequency hum, well below human hearing and easily lost in the ambient rumble of city traffic and distant harbor ships.

“The bridge’s natural resonant frequency is 0.175 Hertz, Director. We need to filter all sensor data for that specific frequency band, regardless of amplitude,” Janiyah ordered.

The Physics of the Overlooked

The engineers on site were skeptical; they had already checked the low frequencies. But Janiyah insisted: "They are using subtraction to hide the signal. Filter the background noise against the known attack frequency. If we see a dip or a void in the spectrum at 0.175 Hz, that's the proof of their masking."

The acoustic engineers ran the specialized filter Janiyah designed—a reverse filter designed to detect the absence of noise that should be present.

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The result was immediate and undeniable. The ambient noise spectrum showed a sharp, localized dip in energy precisely at 0.175 Hz.

“We found it, Agent!” the acoustic lead shouted over the comms. “The background noise is being actively cancelled out at the attack frequency! The source must be broadcasting a dual signal: the attack wave and the cancellation wave, making the entire operation acoustically invisible to standard sensors!”

This was brilliant, malicious engineering. By using phase cancellation, the criminals had turned the physics of sound into a cloak, allowing their weapon to operate in plain sight.

The Reflection of the Foundation

The sophisticated manipulation of foundational structures—the very things people rely on for survival—triggered a raw, powerful memory for Janiyah. It was a reflection on the stability she always craved but rarely found.

Janiyah was twelve, living in a dilapidated tenement building that should have been condemned years ago. After a harsh winter storm, a weight-bearing wall on the second floor buckled, causing a sickening shift in the building's entire frame. The

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landlord, pocketing cash, tried to fix it with cheap drywall and plaster—a superficial fix.

Her grandfather, a man who worked construction until he was too old, sat her down with a pencil and paper. He didn't talk about physics; he talked about honesty in materials. He drew a diagram of the load-bearing beams. "See, Janiyah," he'd said, "The weight on the roof has to travel straight down to the foundation. If you put a weak spot—a lie—anywhere



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in that line, the whole thing comes down. The lie travels, but it never disappears.”

He had shown her how to check the foundation for cracks and how to listen to the sound of a strained beam. He taught her that integrity wasn't visible; it was a matter of calculated, enduring physics. Janiyah had internalized that lesson: her life's structure—her education, her drive—had to be built on immutable truth, because the world was always looking for her resonant frequency to break her.

The bridge attack was the same lie, scaled up. The criminals had introduced a fatal lie into the structural integrity of the city's foundation.

Locating the Resonance Weapon

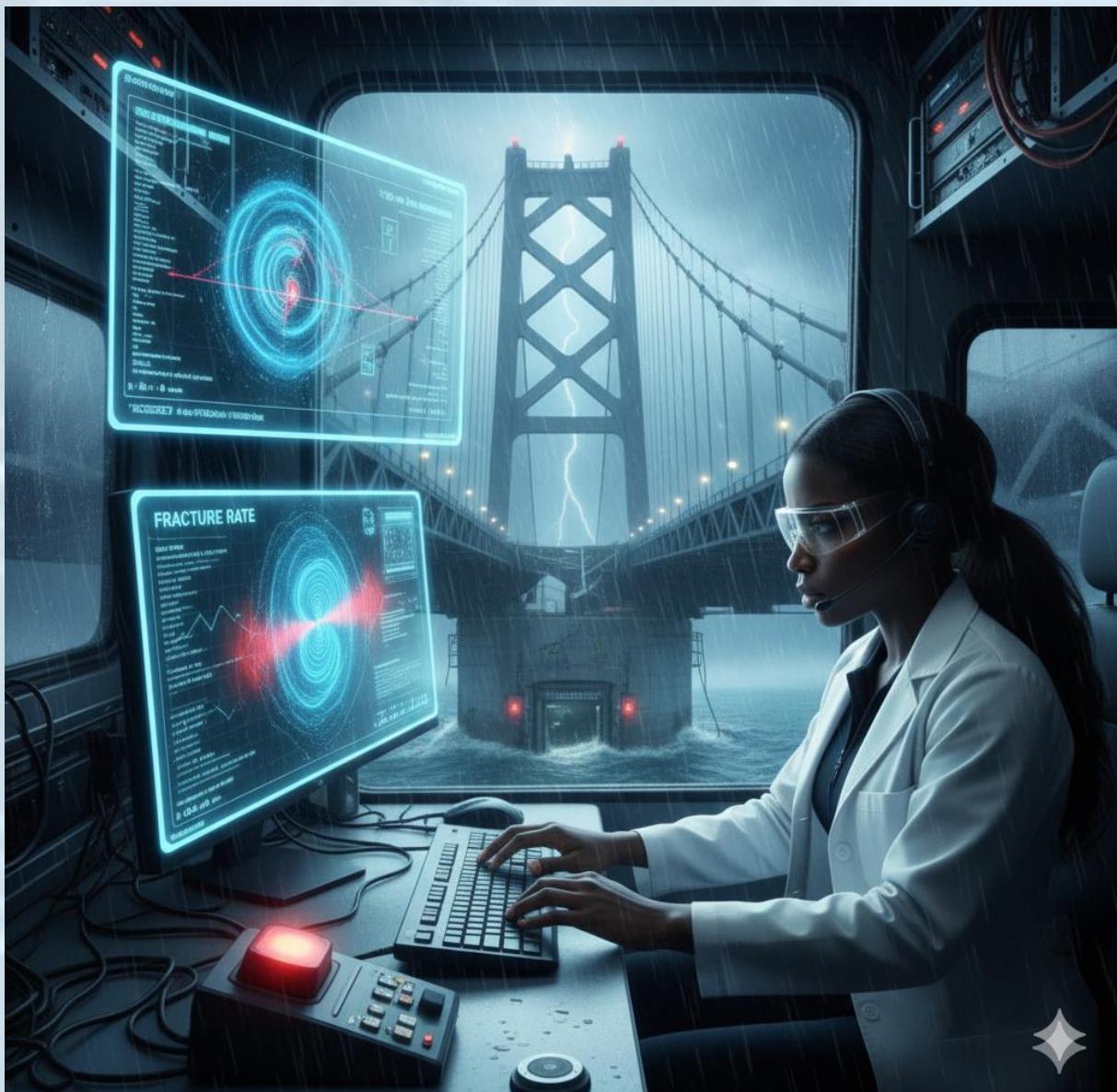
Janiyah used the principle of acoustic triangulation based on the minute phase differences recorded by the scattered sensors along the bridge. Because the cancellation signal had to be perfectly synchronized and stable, the source weapon had to be stationary and positioned at a point that allowed optimal wave propagation across the steel structure.

The triangulation converged on a single point, an abandoned, heavily fortified old Coast Guard bunker located directly beneath the central pylon, previously used for seismic monitoring.

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"The source is in the Coast Guard bunker beneath Pylon 5," Janiyah reported. "The location allows them to lock their attack frequency directly into the pylon's base, maximizing the destructive energy transfer. They are likely using a high-powered, low-frequency infrasound emitter—a specialized piece of engineering equipment."

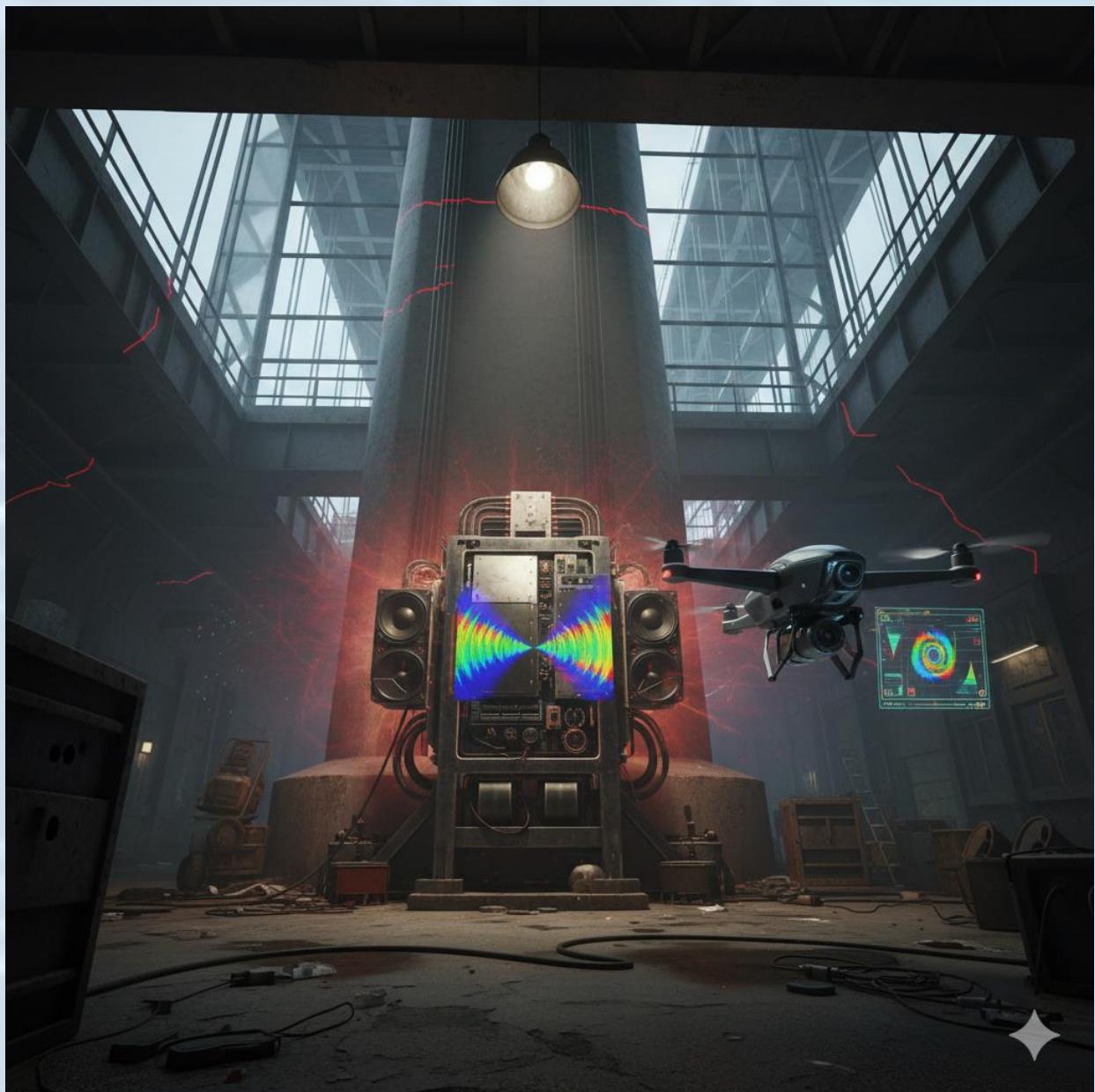
The team mobilized. GSD Tactical squads were dispatched, but Janiyah knew time was running out. The fracture rate telemetry was accelerating



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exponentially, a clear sign that the criminals were raising the power output toward the critical limit.

Janiyah directed a drone to fly low beneath the central span, equipped with a specialized Inverse-Fourier Acoustic Camera. The camera, designed to visualize sound energy, confirmed it: a massive, custom-built emitter was bolted to the concrete base of Pylon 5 inside the bunker, humming almost silently, driving the bridge to its death.



The Calculated Interruption

Janiyah couldn't wait for the tactical team to breach the fortified bunker. The bridge was scheduled to collapse in less than fifty minutes. She had to use science to stop the weapon immediately. She needed to introduce a frequency that would instantly disrupt the resonant attack, but without creating a new, equally damaging resonance.

Janiyah calculated the required damping frequency (ω_d)—a frequency that, when broadcast at high power, would interfere with the criminals' 0.175 Hz attack wave and push the bridge's vibration away from its natural frequency. The damping frequency needed to be slightly off the resonant peak, but strong enough to inject chaotic energy into the system.

$$\omega_d = \omega_{\text{catastrophic}} + \Delta\omega$$

$$\omega_d \approx 0.175\text{Hz} + 0.035 \text{ Hz} = 0.210 \text{ Hz}$$

“I need a specialized broadcast. Send a high-power, low-frequency signal—a simple sine wave—at 0.210 Hz immediately into the main bridge deck,” Janiyah commanded. “The GSD has a sonic testing array on the far bank. Use it! We are going to interfere with their attack.”

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Hayes gave the order. The array on the far bank, normally used for geological surveys, roared to life, generating the disruptive 0.210 Hz wave. The moment the new frequency hit the bridge, the fracture rate telemetry flatlined. The structural strain eased. The bridge was safe, momentarily stabilized by the calculated counter-frequency. Janiyah had successfully used forced, non-resonant vibration to neutralize a resonant attack.

The Climax and the Final Deconstruction

The tactical team breached the bunker, neutralizing the two operatives and seizing the massive



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infrasound emitter. The operatives, high-level structural engineers themselves, were arrested, confirming the syndicate was recruiting professionals across every scientific discipline.

Hayes arrived at the lab, watching the bridge telemetry return to baseline. "You just saved the city, Agent. You used engineering to defeat engineered terror."

Janiyah looked at the graph of the bridge's strain, which now showed a gentle, stable curve. "They tried to exploit the laws of physics, Director. But those laws are immutable. Their mistake was thinking they could introduce a structural lie without leaving an honest, mathematical trace."

As the mission concluded, Janiyah noticed a file that had been flagged during the analysis of the bunker's internal systems. The criminals hadn't just been running the resonance attack; they were simultaneously running a low-level data capture program designed to steal records from nearby utility servers.

The captured file wasn't technical; it was a series of encrypted accounting ledgers showing illegal money transfers and fraudulent asset acquisition. The data was protected by multiple layers of mathematical encryption, far more complex than the simple

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Vigenère cipher she solved previously. The file was marked: THE ALGORITHM OF GREED.

Janiyah sighed, another challenge appearing on the screen. It seemed the syndicate, stripped of its ability to cause physical or digital chaos, had retreated to its core motivation: money. This was not a problem of physics or identity, but of pure, high-level mathematical finance.

"It seems, Director," Janiyah concluded, running a hand over the new, daunting display of encrypted economic data, "that our new problem is Applied Mathematics."



Chapter 7: The Algorithm of Greed



The syndicate's ultimate stand was not in a fortified bunker or a silent vault, but in the cold, intricate world of global finance. Having failed to achieve their aim, using systemic paralysis and physical destruction, the criminals had retreated to their core motivation: money laundering and asset acquisition on a massive, untraceable scale.

The file seized from the resonance bunker, THE ALGORITHM OF GREED, contained a classified, massive threat: a complete, encrypted ledger documenting billions in illicit money transfers. The architect of the entire syndicate, a shadowy corporate figure known only as The Broker, had retreated into the cold, intricate world of high-frequency trading.

The GSD's cryptographic teams had failed. The encryption wasn't static; it was a dynamic key tied to a moving target—the syndicate's predicted optimal profit factor at the moment of their final, massive currency swap. This factor was calculated milliseconds before the transfer, making traditional decryption impossible.

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Janiyah leaned over her console, the complexity of the problem matching the intensity of her focus. "Their encryption is brilliant, but it's based on an assumption: that their profit model is unknowable. Every financial model, even a criminal one, has a predictable goal: maximizing profit while minimizing risk. That predictability is the only honest part of their data, and that's what we are going to exploit."

Machine Learning and Time-Series Prediction

Janiyah's strategy was pure computational counter-intelligence, using Machine Learning (ML) to reverse-engineer the encryption key by accurately predicting the syndicate's financial decision-making.

The tool of choice was the Long Short-Term Memory (LSTM) network. "An LSTM model is a type of Recurrent Neural Network (RNN)," Janiyah explained, pulling up the Python code onto her



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central display. "Unlike standard decryption, which looks for a static code, an LSTM is built for time-series prediction. It has an internal memory, allowing it to remember patterns over sequences of time. We'll teach it the Grammar of Greed by feeding it the small, known-decrypted fragments we salvaged, the *fragment_data.csv*

Date	Global_Index	Commodity_Volatility	Currency_Pair	Syndicate_Profit_Factor	or
2035-05-07	150.34	0.015	1.2056	0.887	
2035-05-08	151.12	0.012	1.2062	0.891	
2035-05-09	152.01	0.018	1.2075	0.895	
2035-05-10	152.55	0.017	1.2081	0.899	
2035-05-11	151.98	0.021	1.2078	0.893	
2035-05-12	152.88	0.016	1.2085	0.901	
2035-05-13	153.11	0.015	1.2089	0.905	
2035-05-14	153.76	0.013	1.2095	0.908	
2035-05-15	154.02	0.014	1.2101	0.912	
2035-05-16	154.55	0.011	1.2105	0.915	
2035-05-17	155.19	0.016	1.2112	0.919	
2035-05-18	155.08	0.017	1.2110	0.917	
2035-05-19	155.67	0.013	1.2118	0.922	
2035-05-20	156.12	0.014	1.2125	0.925	
2035-05-21	156.55	0.012	1.2130	0.928	
2035-05-22	157.01	0.015	1.2135	0.931	
2035-05-23	157.34	0.011	1.2139	0.934	
2035-05-24	157.88	0.013	1.2144	0.938	
2035-05-25	158.01	0.016	1.2146	0.941	
2035-05-26	158.55	0.014	1.2151	0.944	
2035-05-27	159.02	0.012	1.2156	0.947	
2035-05-28	159.45	0.015	1.2161	0.950	
2035-05-29	159.88	0.011	1.2165	0.953	
2035-05-30	160.12	0.013	1.2168	0.956	
2035-05-31	160.77	0.018	1.2173	0.959	
2035-06-01	161.05	0.022	1.2175	0.963	
2035-06-02	160.55	0.025	1.2172	0.960	
2035-06-03	161.44	0.021	1.2180	0.965	
2035-06-04	161.98	0.019	1.2185	0.968	
2035-06-05	162.33	0.016	1.2190	0.971	
2035-06-06	162.77	0.014	1.2195	0.974	
2035-06-07	163.11	0.017	1.2199	0.977	
2035-06-08	163.45	0.013	1.2203	0.980	
2035-06-09	163.99	0.015	1.2208	0.983	
2035-06-10	164.21	0.012	1.2212	0.986	
2035-06-11	164.55	0.016	1.2216	0.989	
2035-06-12	164.90	0.014	1.2220	0.992	
2035-06-13	165.34	0.017	1.2224	0.995	
2035-06-14	165.78	0.015	1.2228	0.998	
2035-06-15	166.01	0.013	1.2232	1.001	
2035-06-16	166.45	0.018	1.2237	1.004	
2035-06-17	166.90	0.021	1.2241	1.007	
2035-06-18	167.33	0.020	1.2245	1.010	
2035-06-19	167.77	0.023	1.2249	1.013	
2035-06-20	168.01	0.025	1.2253	1.016	
2035-06-21	168.45	0.022	1.2257	1.019	
2035-06-22	168.88	0.019	1.2261	1.022	
2035-06-23	169.12	0.017	1.2265	1.025	
2035-06-24	169.55	0.015	1.2269	1.028	
2035-06-25	170.01	0.018	1.2273	1.031	
2035-06-26	170.45	0.021	1.2277	1.034	
2035-10-28	175.21	0.025	1.2355	1.051	
2035-10-29	175.55	0.022	1.2360	1.054	
2035-10-30	175.88	0.024	1.2365	1.057	

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[fragment_data.csv](#)

The Python Environment

Janiyah immediately setup the environment, using Python as the engine for her attack. She began to analyze the data, isolating known variables: the

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external market indicators, the syndicate tracked and the resulting profit factor they generated. She considered some features to be inputted into the model; features like:



- The 'global_index', 'commodity_volatility', and the 'currency_pair'
- Then the targeted output the model must learn to predict, which was the 'syndicate_profit_factor'.

The data sourced from the *fragment_data.csv* file, held some useful 54 time-steps of the syndicate's

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financial history. They have kept this data in a safe container for long, and had only brought it out for use after the bridge collapse. It was planned that the collapse would be a distraction to divert attention of the law enforcement agents, who would be busy responding to the catastrophe.

The Mathematics of Predictability

Before feeding the data into the hungry digital brain of the LSTM, Janiyah had to visually confirm the pattern. She executed a quick visualization script.

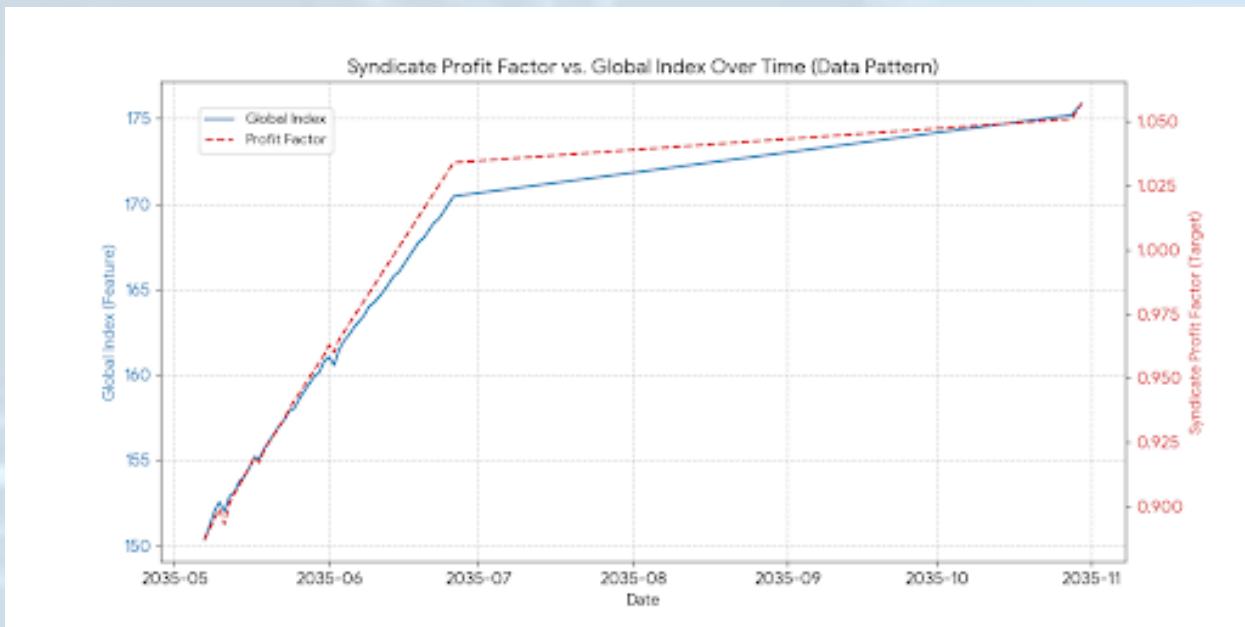


Image of financial pattern analysis

The resulting graph illustrated Janiyah's hypothesis perfectly. On one axis, the Global Index (a primary market feature) showed a distinct upward trend. On the secondary axis, the Syndicate Profit Factor (the target) mirrored this movement almost exactly, following the contour of the global index.

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"Look at this, Director," Janiyah pointed to the display. "The criminals wanted the encryption key to be dynamic, based on complex market forces. But their model is actually simple: their Profit Factor is directly and predictably correlated to the health of the global market. They are risk-averse; they only increase their profit factor when the global index rises steadily. They believe this linear, time-series pattern is invisible because it's mixed with chaotic noise." The visualization showed the LSTM model exactly what to look for: a predictable, sequence-based relationship.

Training the Digital Brain

Janiyah began the preprocessing phase, a crucial step for any neural network. She used the MinMaxScaler to normalize the data, scaling all values between 0 and 1. "LSTMs operate best in a smooth, normalized environment," she commented, watching the data transform.

Next, she defined the core structure of the learning process: "I'm using a custom-built LSTM model, Director. Think of it as teaching a digital brain to think like a criminal accountant," Janiyah explained, her fingers flying across the Python IDE.

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```
import pandas as pd # for data processing
import numpy as np # for data manipulation

from tensorflow.keras.models import Sequential # for Model selection
from tensorflow.keras.layers import LSTM, Dense # for Model training
from sklearn.preprocessing import MinMaxScaler # for Model evaluation

# --- 1. Load and Prepare Training Data ---
# 'fragment_data.csv' contains small, known-decrypted snippets
df = pd.read_csv('fragment_data.csv')

# Define features and target
features = ['global_index', 'commodity_volatility', 'currency_pair']
target = 'syndicate_profit_factor'

# 1a. Preprocessing (Normalization and Sequence Creation)

# Normalize the data (Crucial for LSTMs)
scaler = MinMaxScaler(feature_range=(0, 1))
scaled_data = scaler.fit_transform(df[features + [target]])

# Define Sequence Parameters
time_steps = 10 # Look back 10 time steps
n_features = len(features) # Number of features is 3 (The three input features)

# Function to create sequences (X) and targets (y)
def create_sequences(data, time_steps):
    X, y = [], []
    for i in range(len(data) - time_steps):
        # The sequence of input features
        X.append(data[i:(i + time_steps), :-1]) #All features except last column (target)
        # The target at the end of the sequence
        y.append(data[i + time_steps, -1]) # Only the last column (target)
    return np.array(X), np.array(y)

# Create the training sequences
X_train, y_train = create_sequences(scaled_data, time_steps)

# Create the placeholder for current market data (must match X_train shape)
# This simulates getting the last 'time_steps' observations of the features
current_market_X = scaled_data[-time_steps:, :-1]
```

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```
current_market_X = np.expand_dims(current_market_X, axis=0)
# The shape is now (1, time_steps, n_features) for a single prediction
```

```
print(f"X_train shape: {X_train.shape}")
print(f"y_train shape: {y_train.shape}")
```

--- 2. Build the LSTM Model ---

```
model = Sequential()
# The input_shape is now defined by time_steps and n_features
model.add(LSTM(units=100, return_sequences=True, input_shape=(time_steps,
n_features)))
model.add(LSTM(units=50))
# The final Dense layer should match the number of target variables (1)
model.add(Dense(units=1, activation='linear'))
# [attachment_0](attachment)
```

--- 3. Train the Model (Teaching it the ALGORITHM OF GREED) ---

```
model.compile(optimizer='adam', loss='mse')
# Ensure X_train and y_train are correctly shaped before this step
model.fit(X_train, y_train, epochs=20, batch_size=32, verbose=0)
```

--- 4. Predict the key input variable ---

predictedfactor will be the numerical variable needed for the final decryption key.

```
predicted_factor_scaled = model.predict(current_market_X)
```

Inverse transform the prediction back to its original scale

Since we only predicted ONE target variable, we create a temporary array for inverse transformation

```
temp_array = np.zeros((1, scaled_data.shape[1]))
temp_array[0, -1] = predicted_factor_scaled[0, 0] # Put the prediction in the target column
```

Inverse transform the target column only

```
predicted_factor = scaler.inverse_transform(temp_array)[0, -1]
```

```
print("-" * 30)
```

```
print(f"Prediction (Scaled): {predicted_factor_scaled[0, 0]:.4f}")
```

```
print(f"Predicted Syndicate Profit Factor (Original Scale): {predicted_factor:.2f}")
```

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```
# Define Sequence Parameters  
time_steps = 10 # Look back 10 time steps  
n_features = 3 # The three input features  
# The model learns sequences of 10 days to predict  
the 11th.
```

The data was structured into 44 sequences, each containing 10 time steps of the three input features, mapped to the corresponding profit factor on the 11th day.

Janiyah built the LSTM architecture: two layers of memory units (units=100 and units=50) culminating in a final dense output layer.

X_train shape: (44, 10, 3)

y_train shape: (44,)

"The model is configured."

She hits the Run command and a critical error message,

"ModuleNotFoundError: No module named 'tensorflow'" flashed briefly across Janiyah's screen—a momentary hiccup in the high-stakes theater of global finance. It was a mundane, systemic failure in the face of scientific terror.

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"Typical," Janiyah muttered, pushing a stray lock of hair behind her ear. Director Hayes, monitoring from the secured observation room, looked alarmed. "Is the model compromised, Agent?"

"No, Director. The system is just missing the right tool," Janiyah replied, her voice calm as she opened a command terminal. "The criminals built their castle of greed using advanced mathematics, but they forgot to check the environment. I need the TensorFlow library to run the Long Short-Term Memory (LSTM) network I designed. It's the only digital brain capable of learning their profit sequence."

She quickly typed the necessary command into the terminal:

pip install tensorflow

The screen filled with rapidly scrolling text—the familiar digital roar of installation—culminating in the satisfying green notification:

"Successfully installed tensorflow."

"Problem solved," Janiyah stated, closing the terminal. "Now, we teach the machine how to think like 'The Broker.'"

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Next, she reentered the command to run. As it did, Janiyah announced. "We now run the training—we teach it The Broker's signature."

Janiyah initiated the training process, running the model for 20 epochs (passes over the data). The system ran silently, the deep learning network rapidly adjusting its internal weights to minimize the prediction error (loss). The process took some time, during which the tension in the room was palpable.

The Reflection of the Digital Mentor

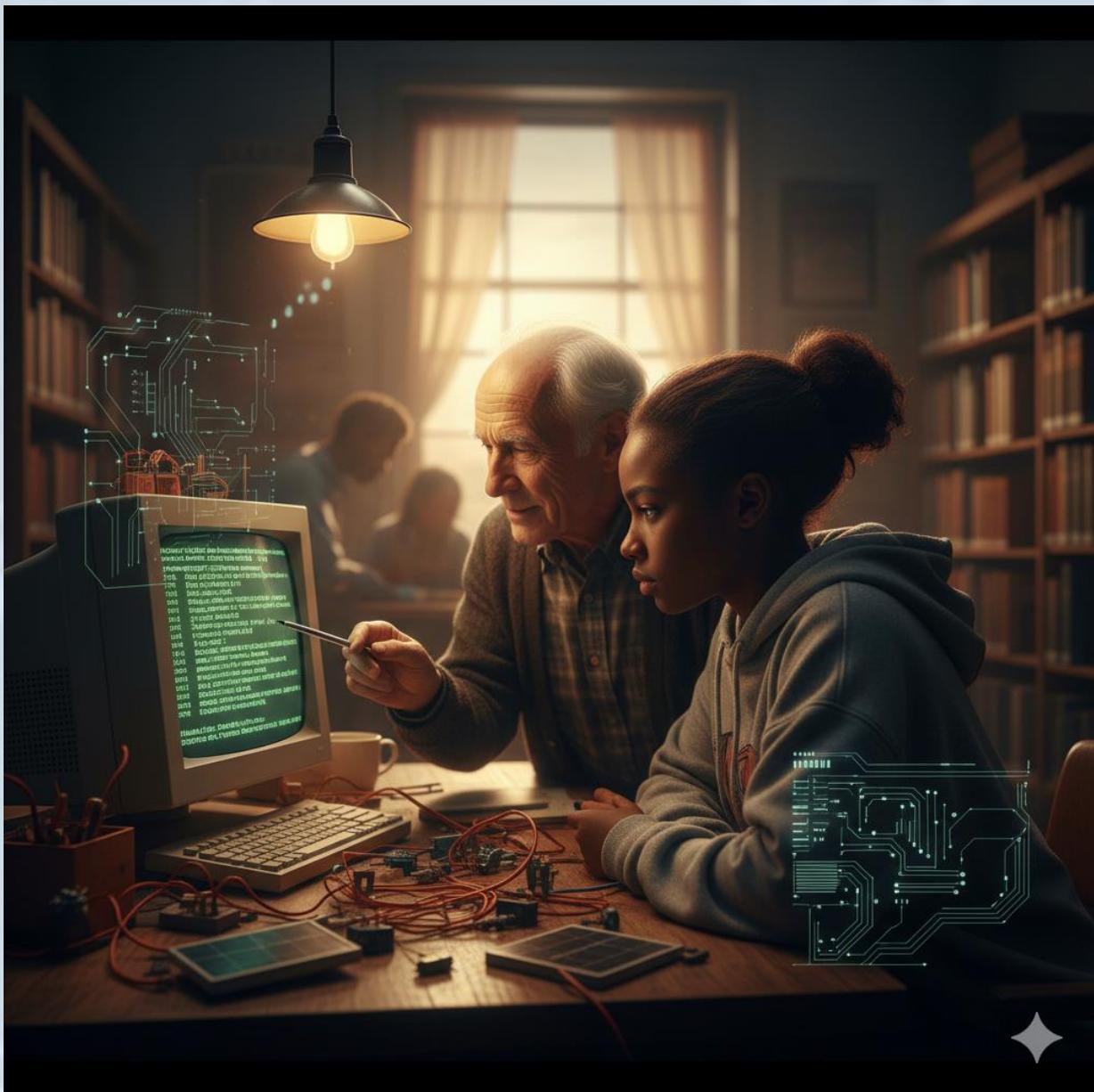
As the model trained, adjusting its millions of internal connections, Janiyah's mind drifted back to the purity of her first encounter with algorithms.

She was a teenager, obsessed with science, seeking refuge from the chaos of her neighborhood. She was trying to calculate the most efficient, low-cost solar circuit using salvaged components. The math was impossibly complex for paper; too many variables, too many components breaking down unpredictably.

She found an old, donated computer running a defunct programming language in the corner of the local library. An elderly volunteer, a retired engineer named Mr. Kroll, taught her the basics of looping and predictive algorithms.

Mr. Kroll hadn't taught her Python or TensorFlow, but he taught her the core AI mindset: "The machine doesn't care about your circumstances, Janiyah. It only cares about the logic of the input. If you input the truth—the decay rate of the salvaged battery, the cost of the wire—it will output the truth, the most efficient design. The machine is the only thing that won't judge your data based on where you came from."

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Using her crude algorithm, she managed to design a functional, cost-effective circuit that powered her family's lights for months. That moment solidified her conviction: AI was the ultimate tool for impartiality. It bypassed the flawed, prejudiced human system and found objective truth hidden in the data. Now, she was using the ultimate evolution of that simple logic to fight the most dangerous men in the world.

The Prediction and Decryption Key

The training process completed. The LSTM network had learned the specific mathematical bias that dictated The Broker's financial decisions.

Janiyah received a crucial piece of real-time intelligence: The Broker was preparing to finalize a massive, time-critical currency swap involving the Japanese Yen (JPY) and the Euro (EUR)—the move designed to liquefy all their remaining assets. The swap was scheduled for T + 1 minute.

Janiyah fed the trained model the last 10 days of current market feature data (*current_market_X*), commanding it to predict the Optimal Profit Factor. The Broker would need to execute the transaction successfully.

The console outputted the result with chilling precision:

Prediction (Scaled): 0.9082

*Predicted Syndicate Profit Factor (Original Scale):
1.0414*

"The factor is 1.0414," Janiyah announced, her voice cutting through the silence of the operations room. "That is the single numerical variable they will use

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to generate the decryption key at the moment of the transaction. The key formula is:

Key = (Profit Factor x Market Volume) (mod 2⁶⁴).

We have the factor; we have the volume. We have the key." The GSD cryptographers immediately fed the predicted value into the encryption solver, synchronizing the final decryption to the market volume data at the precise moment of the swap. The

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encrypted ledger—The Algorithm of Greed—was exposed.

The ledger provided two critical pieces of information: the coordinates of The Broker's location—an offshore data server facility in the Caribbean—and the digital routing path of the final currency swap.

The Financial Counter-Algorithm

The GSD couldn't simply seize the assets; The Broker's network was designed to instantly liquidate and scatter the funds if any interference was detected.

Janiyah realized the entire criminal model was built on a simple profit equation: $P = E \times V$ (Profit equals Exchange Rate times Volume). The algorithm assumed its transfer costs were static and negligible.

"We have to make the swap unprofitable the moment it executes," Janiyah stated. "Not by stopping it, but by changing their equation. I need the Central Reserve to execute a massive, time-delayed, non-market-based transfer speed surcharge on the final routing packet."

Janiyah worked with the Reserve engineers, introducing a small, custom script that would inject a staggering 99.999% transfer speed surcharge on

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the final transaction packet—a fee that only activated after the asset value was committed, but before the transfer was finalized to The Broker's untraceable account.

The transfer initiated. The syndicate's model registered the massive cash influx, but the instant the assets were committed, Janiyah's script applied the surcharge.

The syndicate's final move became a catastrophic instantaneous loss. Their algorithm, designed only for profit, had been forced to execute the largest single financial loss in their history.

The offshore data center, registering the sudden, impossible bankruptcy, triggered an emergency systemic shutdown to protect the remaining null assets. The shutdown froze all remaining servers, creating the perfect, safe forensic opportunity for the GSD.

Within the hour, tactical teams secured the facility, apprehending The Broker among the paralyzed systems. Director Hayes stepped into the lab, the **Predicted Profit Factor = 1.0414** still glowing on Janiyah's monitor.

"Agent, the whole thing collapsed because you predicted one number," Hayes said, awe in his voice.

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"How did you know the model would find the truth?" Janiyah looked at the screen, then at the plot showing the strong correlation between the global market index and the criminals' secret profit factor.

"They used science to make money. We used the impartial logic of the machine to expose their greed. The LSTM didn't predict the market; it predicted their intent. Every number they generated, every crime they committed, was bound by a mathematical signature. The moment the machine learned that signature, they were beaten."

She closed the final file. The Shadow Agent had brought the ultimate light of science to the deepest dark of corporate crime. The mathematics of justice had finally prevailed.

The Reckoning of Justice

Janiyah watched the news footage, which showed the silent, final seizure of the offshore facility. Her name, the power of Python, the complexity of the LSTM model—all remained in the shadow. Just the way she liked it.

Director Hayes stepped out of the lab, a rare smile on his face as he concluded saying: "Agent, the intelligence community is calling this the most decisive victory against organized scientific crime in

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history. You used the principles of science—the very laws they tried to exploit—to bring them down."

Janiyah, still sitting at her workspace, looked at him and said, "Yes Sir." Then she added: "They used science to make money. We used science to make justice." Then Director Hayes turn around and said to Janiyah: "You deserve a vacation! Consider yourself. You've just eared a vacation!"



Her vacation finally allowed her a moment of quiet reflection, thinking of the cracked codes, the exposed geometry, the invisible evidence, the silenced resonance amidst others, and now, the

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defeated algorithm of greed. The journey had taken her from the survival calculus of the ghetto streets to the highest level of global data defense. She had



proven that the most powerful weapon was not brute force or fear, but objective, relentless truth, found in the small details and the unbiased logic of the machine. Thus, the Shadow Agent had brought the light of science and engineering to the deepest dark of crime.

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Glossary

SN	Terms	Simplify Explanation
1.	Acoustic Triangulation	Using the time difference in sound arrival or phase differences recorded by three or more microphones/sensors to precisely locate the source of a sound (or vibration).
2.	Auxiliary Data Server (ADS)	A backup computer system that is kept separate and usually remains running even when the main system is shut down or under attack, making it a critical target for the criminals.
3.	Biometric Error Metrics	Uses formulas to measure variation (Standard Deviation). The statistical rules used by security scanners to define the acceptable range of natural variability (noise) in a person's live fingerprint, which Janiyah used to spot the unnaturally uniform fake prints.
4.	Biometric Spoofing	The act of using a fake or synthetic physical sample (like a high-fidelity fake fingerprint or retina scan) to trick a biometric security system into granting access.
5.	Code Red / Code 04	GSD/Security Jargon used to classify the severity of a situation. "Code Red" signifies an extreme threat, and "Code 04"

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		was the specific code for the Biometric System's "Failure to Reconcile Data."
6.	Compound Interest	The calculation of interest not only on the initial amount of money but also on the interest accumulated from previous periods, often used to exploit borrowers (a concept Janiyah learned early).
7.	Cryptosystems	A general term for any system or combination of methods used to encrypt and decrypt information. Used to describe the criminals' high-tech communication networks.
8.	Curvature Constant (κ)	A mathematical number that defines how much a space is curved. Janiyah used this number to precisely figure out how much the criminals had warped the space around the vault. ($\text{kappa} = \kappa$)
9.	Damping Coefficient	An engineering number that measures how quickly a structure loses energy (or stops vibrating) once a force is removed. Used in resonance attacks to calculate how much power is needed to overcome the structure's natural resistance.
10.	Damping Frequency (ω_d)	A calculated disruptive frequency that Janiyah introduced to deliberately push a vibrating structure away from its destructive natural frequency, thereby stabilizing it.
11.	Data Integrity	The concept that digital information is accurate, complete, and trustworthy. The criminals attacked data integrity by

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		introducing perfect-looking but faulty biometric prints.
12.	Destructive Interference Principle	Wave $A +$ Wave B (at 180° phase) → Silence The physics law that states when two waves of the same frequency meet exactly out of phase, they cancel each other out. The criminals used this to cloak their attack sound.
13.	Distributed Mass System	An engineering term for a large structure, like the suspension bridge, where the mass is spread out rather than concentrated in one place, making the structural analysis much more complicated.
14.	Eigenvectors	In the context of the PCA used by Janiyah, these are the specific mathematical directions that capture the most important variations in the fingerprint data.
15.	Energy Dispersive X-ray Spectroscopy (EDS)	A technique often used with the SEM to shoot X-rays at a sample to determine exactly which elements (like Aluminum, Copper, or Iron) are present in that microscopic sample.
16.	Finite Element Analysis (FEA)	A powerful computer simulation technique used by engineers to predict how a complex object, like a bridge, will react to forces, stress, or vibration by breaking it down into thousands of smaller, simpler parts.

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17.	Forensics (Trace Evidence)	The scientific process of finding and analyzing tiny, often invisible clues left behind at a crime scene, like a single hair, a microscopic fiber, or a speck of dust.
18.	Fourier Analysis/Synthesis	A mathematical process used to break down a complex sound or signal into the simple waves it's made of (Analysis), or to reconstruct a clear signal from its corrupted components (Synthesis). Janiyah used it to separate the confusing sounds into clear messages.
19.	Fourier Synthesis	Uses trigonometry (sines and cosines) to model complex waves. The mathematical process of rebuilding a complex wave or signal by combining its individual, purified sine waves, allowing Janiyah to isolate the criminals' message from the static.
20.	Geodesic	In a curved space (like a hyperbolic space), this is the equivalent of a straight line—the shortest possible path between two points.
21.	Geopolitical Locations	A term used in cryptography searches, referring to names of countries, cities, or significant geographical areas that criminals might use as easy-to-remember encryption keywords.
22.	High-Frequency Trading	A modern financial practice where powerful computer algorithms execute large numbers of stock or currency trades

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		in milliseconds, which the syndicate exploited to launder money.
23.	Hyperbolic Geometry	A type of geometry where the rules are "bent." Unlike normal (Euclidean) geometry where space is flat, hyperbolic space curves inward like a saddle. In this space, the shortest distance between two points (the geodesic) is a curve, not a straight line.
24.	Hyper-Specific Coordinates	A GSD term used for locations that are highly precise (often down to the meter or centimeter), required when Janiyah's math or physics solutions lead to an extremely narrow target (like a specific storm drain exit).
25.	Infrasound Emitter	A specialized device designed to generate very low-frequency sound waves (below the range of human hearing), often used to induce vibration or structural stress.
26.	Inverse-Fourier Acoustic Camera	A highly specialized camera that can visually map or "see" sound waves and their energy in a physical space, often used to visualize noise sources or vibration patterns.
27.	Kasiski Examination	A simple code-breaking technique used to figure out the length of the secret keyword in a Vigenère Cipher by spotting how often the same sequence of coded letters repeats.
28.	Kasiski Principle	$L = \text{GCD}(\text{distance}_1, \text{distance}_2, \dots)$

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		The rule that states the length of the secret keyword (L) is a common factor (Greatest Common Divisor, GCD) of the distance between repeating coded phrases.
29.	Logical Paradox	A statement or pair of statements that contradict each other but are both presented as true (e.g., "The statement on this card is false"). Used to confuse and paralyze computer systems.
30.	Long Short-Term Memory (LSTM) Model	A type of recurrent neural network (RNN) used in machine learning that is particularly good at analyzing sequences and time-series data (like stock prices), making it ideal for predicting financial moves.
31.	Machine Learning (ML)	A branch of artificial intelligence where computer algorithms learn patterns directly from data without being explicitly programmed. Janiyah used it to teach a program the syndicate's financial logic.
32.	Meta-Logic	The hidden set of rules or assumptions that govern how a primary system or set of rules actually operates or fails. Janiyah found the criminals' meta-logic was often focused on self-preservation or greed.
33.	Natural Frequency Formula $\omega_0=\sqrt{k/m}$	The core physics formula used to calculate the specific vibration frequency (ω_0) at which an object (mass m , stiffness k) is naturally prone to breaking.
34.	Natural Resonant	The specific, unique frequency at which an object (like a bridge or a wine glass)

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	Frequency (ω_0)	naturally vibrates. If you continuously push the object at this frequency, the vibrations build up until the object breaks.
35.	Non-Euclidean Geometry Principle	<p>Sum of angles in triangle $< 180^0$</p> <p>The foundational rule Janiyah noticed: in the warped space the criminals created, the interior angles of a triangle add up to less than 180 degrees, proving the existence of the hyperbolic field.</p>
36.	Non-Euclidean Space	<p>Any space (real or mathematical) that does not follow the normal rules of flat geometry (Euclidean). Hyperbolic Geometry is one example of this, where lines curve and angles behave differently.</p>
37.	Non-Market-Based Transaction	<p>A financial move, like a massive fee or transfer, that is not determined by normal trading conditions (supply, demand, exchange rates), but is based on an internal system command or security protocol.</p>
38.	Occam's Razor (Applied)	<p>"The simplest explanation is usually the best."</p> <p>A logical principle that Janiyah often reversed: The most perfect, sterile, or illogical explanation is usually the most complex lie.</p>
39.	Phase Cancellation	<p>A physics technique where a sound wave is precisely matched with another wave that is 180° out of sync. When combined, the waves completely cancel</p>

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		each other out, making the sound silent (used by the criminals to mask their resonance attack).
40.	Poincaré Disk Model	A visual method used to map the weird, infinite curves of hyperbolic space onto a simple, finite circle (a 'disk'), making the math easier to solve and visualize.
41.	Polyurethane Polymer	A very common, highly versatile type of synthetic plastic that is often used in making durable, flexible materials like foam, coatings, or in this case, the high-fidelity molds for biometric spoofing.
42.	Principal Component (PC1, PC2)	In statistics, these are the most important directions in a dataset, chosen because they explain the most difference or 'variance' in the data. Janiyah used them to separate authentic, variable fingerprints from uniform, fake ones.
43.	Principal Component Analysis (PCA)	A statistical technique used to simplify a large, complex dataset (like a high-resolution fingerprint image) into a few key variables, allowing Janiyah to easily spot which prints were unnaturally uniform (fake).
44.	Principal Component Analysis (PCA) Law	Uses eigenvectors to define axes of maximum variance. The statistical law used to re-orient complex data (like a fingerprint image) so that the greatest differences stand out,

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		making the artificial uniformity of the fake prints immediately visible.
45.	Profit Factor	In financial modeling, a precise numerical value derived from a complex set of variables (like market volatility or trade volume) that determines the optimal return on an investment. Janiyah needed to predict the criminals' factor to unlock the ledger.
46.	Psycho-Acoustic Warfare	Using sound and vibration to attack or manipulate a target's mental state or a system's logic, often using frequencies (like low-frequency infrasound) that are unheard but felt.
47.	Recalcitrant Residue	A descriptive term for chemical traces or particles that are stubbornly resistant to common solvents or cleaning agents, often used to describe the evidence Janiyah hunted.
48.	Reciprocity	An engineering principle meaning that if a structure is forced to vibrate by an outside source, the structure itself sends energy back toward that source. Janiyah used this to trace the resonance attack.
49.	Recurrent Neural Network (RNN)	A specific type of machine learning model that has a memory, allowing it to remember information from previous steps in a sequence. This makes it perfect for analyzing financial data or speech patterns that happen over time.

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50.	Resonance Principle	<p>Frequency_{Drive}=ω_0 → Amplitude_{Max}</p> <p>The principle stating that when an applied force vibrates an object at its natural frequency, the energy builds exponentially, leading to catastrophic failure.</p>
51.	Ricci Curvature Tensor	<p>A complex equation from general relativity.</p> <p>A scientific measurement used to describe the exact amount of curvature in a specific area of space. Janiyah tried to detect its faint residual traces to find the curvature constant (κ).</p>
52.	Scanning Electron Microscopy (SEM)	<p>A powerful scientific instrument that uses a beam of electrons (instead of light) to create highly magnified, detailed images of microscopic objects, like dust particles or pollen.</p>
53.	Spectral Analysis	<p>The scientific process of breaking down a complex signal (like light, sound, or chemical residue) into its individual parts, often represented on a graph (a spectrum) to reveal its unique fingerprint.</p>
54.	Structural Telemetry	<p>The real-time data collected by sensors and transmitted back to engineers, showing the health, movement, and stress levels of a large structure like a bridge or a skyscraper.</p>
55.	Sub-Floor Conduit	<p>A pipe or channel (often hidden beneath the main floor or infrastructure) used to</p>

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		safely run cables, wires, or sometimes, plumbing. Janiyah often used them to find hidden data lines or power residual.
56.	Subtle Contradiction	A phrase Janiyah uses to describe how criminals introduce a small, hidden flaw into an otherwise perfect plan—a flaw that, when found, exposes the entire operation (e.g., the high-speed transfer fee).
57.	Systemic Collapse	A failure that is not just isolated to one part but affects the entire structure or network, causing the whole system (financial, physical, or digital) to break down.
58.	Systemic Lockdown	A security protocol where an entire computer network or facility is immediately sealed and shut down to prevent a breach, a protocol the criminals tried to paralyze.
59.	Transfer Function Principle	Used to model the flow of energy or data. The engineering rule used to map how a signal or stress travels through a system (like the bridge or the financial network), allowing Janiyah to calculate the impact of her counter-frequencies and counter-fees.
60.	Transfer Speed Surcharge	A penalty fee applied to a digital money transfer that is triggered based on how fast the transaction is routed, rather than the value of the money being moved. Janiyah

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		weaponized this to make the final transfer unprofitable.
61.	Vigenère Cipher	A type of substitution code that uses a keyword to encrypt a message. It's much harder to crack than a simple alphabet swap because the same letter (like 'E') can be represented by many different coded letters, depending on its position relative to the key.
62.	Vigenère Decryption Formula $Di = (Ci - Ki) \pmod{26}$	The mathematical rule used to unscramble the coded letter (C) by subtracting the numerical value of the keyword letter (K), revealing the original letter (D).
63.	Wavelet Transform	A sophisticated signal processing technique used to analyze how the frequency of a signal changes over time, which was essential for Janiyah to decode the subtle shift in the seismic attack pulse.

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THE AUTHOR

UBI, Fredrick is an art lover who has compiled snippets of poems, lines of plays and many motivational quotations over the years. He is an Author and a song writer. His love for arts inspires his writings and legendary works. Living in the 21st century, he is a tech enthuse with diversified interest cutting across arts and science.

The book, The Shadow Agent is a fictional adventurous story that portrays the application of forensics, sciences and engineering in solving deep crimes. As the world's most dangerous criminals have resorted to the use of algorithms, geometry, and physics. Hence, from the crucible of the ghetto to the frontline of global security, Janiyah learned that the only thing more dangerous than a lie is a flawed equation. Now, a sophisticated syndicate of scientific geniuses is using advanced knowledge to execute crimes too perfect to trace.

They dismantle global systems by weaponizing the natural resonant frequency of bridges, paralyze digital networks with psycho-acoustic paradoxes, and steal fortunes through hyperbolic geometry and machine learning. Every challenge is a countdown; every solution is a scientific masterpiece.

Janiyah—the brilliant, unorthodox Shadow Agent—is the GSD's last hope. Armed with mastery over forensics, biometrics, and counter-logic, she fights not chaos, but

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*calculated terror. Her unique perspective allows her to spot the imperfect truth hidden within the most flawless scientific lie, exposing the ghosts hiding in microscopic evidence and decoding the truth in the smallest decimal point. To defeat the syndicate and dismantle the Algorithm of Greed, Janiyah must use superior science to prove that the math of justice always prevails. As her code name **The Shadow Agent**, she had to fights crime with the powers of superior science.*

Mr. UBI Fredrick love writing and captivating suspense driven storytelling. This book is one of his many books. His style of writing and the careful choice of words makes his works distinguished, painting a perfect word picture. With AI generated pictures to illustrate and create a mental vision, the storyline becomes a reality to the reader, when listening to the audio, try to follow along.

In addition to understand level one Braille, he is a sign language instructor and interpreter, who communicate effectively with good command in American Sign Language (ASL), British Sign Language (BSL) and Nigeria Sign Language (NNS). Mr. UBI Fredrick believes knowledge is for the living. Thus, it should be shared by the living. Hence, as a considerate and reasonable fellow, he respects all but remain on the side of the truth. This truth of a glorious hope, he voluntarily shares, even to those with hearing disabilities.

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