

Ikbar Faiz

Jakarta, Indonesia | 082134099169 | ikbarfaiz14@gmail.com
ikbarfaiz.vercel.app | github.com/arsenelupin14 | linkedin.com/in/ikbarfaiz

SUMMARY

Early-career Python builder focused on reproducible data workflows for ingestion, validation, metadata handling, and structured outputs across complex datasets. Strong in turning raw records into traceable, analysis-ready artifacts through cross-source checks, rerunnable pipeline design, and documentation-first execution. Best aligned with data engineering and data-heavy backend roles.

EDUCATION

BINUS University - Undergraduate Computer Science

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript

Data: Pandas, NumPy, scikit-learn, Matplotlib, Jupyter, Parquet, time-series analysis, data cleaning, statistical validation

Engineering: Git, GitHub, Linux, Docker, Terraform, Next.js, React, Tailwind CSS, GitHub API integration, Vercel

Workflow Strengths: data ingestion, metadata handling, cross-source validation, reproducible pipelines, structured outputs, traceable artifacts

SELECTED PROJECTS

T CrB Photometry and Raw-Image Pipeline

Python | GitHub: arsenelupin14/t-crb-project

- Built a reproducible Python pipeline to ingest, clean, aggregate, and analyze multi-source observational and raw-image data.
- Processed 174,872 modern V observations and generated standardized bins, smoothing outputs, and cross-check artifacts for downstream analysis.
- Validated 71 overlap bins against ASAS-SN, reporting median delta about -0.019 mag and Spearman correlation about 0.883.

IRIS Archive Ingestion and Metadata Pipeline

Python | GitHub: arsenelupin14/iris-solar-uv-data

- Built a metadata-aware Python pipeline for archive query, download, indexing, and per-observation processing on public IRIS Level 2 data.
- Exercised the workflow on 7 real observations, producing 9 merged event rows and 4 duplicate-window audit comparisons.

Rubin Sampling: Gaia-to-ZTF Period Recovery Baseline

Python | GitHub: arsenelupin14/rubin-sampling

- Built a baseline Python pipeline to test time-series period recovery under Rubin-like cadence using Gaia DR3 and ZTF data.
- Implemented Lomb-Scargle search, standardized parquet outputs, and evaluation artifacts that expose recovery behavior and alias failures.

RUWE Radial KS Clustering

Python | GitHub: arsenelupin14/ruwe-radial-ks-clustering

- Turned exploratory clustering work into a reusable Python workflow for membership inference and data-quality analysis.
- Added a CLI entry point, rerun steps, and documentation so results are easier to reproduce and compare across datasets.

ONGOING WORK

Astrolyte

Ongoing | astrolyte.vercel.app

- Building a metadata-first public data platform around ingest, index, process, validate, and serve stages.

HLSP / MAST Metadata Pipeline

Ongoing | Python, DuckDB, Parquet

- Building a metadata-first ingestion pipeline with bronze/silver/gold outputs, product-manifest expansion, DQ checks, and queryable run metrics.

ACHIEVEMENTS

Top 10 Finalist, HACKVIDIA (ARKAVIDIA 10.0 by ITB)

Team fraktur tulang

- Co-built NADI, an autonomous business orchestrator concept for UMKM focused on workflow automation, governance, and AI-assisted operations.

LEADERSHIP AND OPERATIONS

HIMTI BINUS University - Promotion Lead, TECHFEST 2025

Mar 2025 - Jul 2025

- Coordinated media partner outreach, campaign flow, and participant communication across WhatsApp, Instagram, and email.

HIMTI BINUS University - Registration Committee, ICPC 2025

Oct 2025 - Dec 2025

- Managed participant data validation, eligibility checks, record maintenance, and issue resolution before deadlines.

HIMTI BINUS University - Activist and Event Committee Roles

2025 - Present

- Supported logistics, rundown execution, and cross-team coordination across HIMTI Care, HIMTI Meet 2025, and TECHNO 2025.