

Jigyasu

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SUMMARY

Open-source ML engineer with experience building machine learning infrastructure, benchmarking and evaluation tools, and scalable and reproducible data workflows. Core developer of sktime and merged patches across SciPy, scikit-image, Hugging Face LightEval, and OpenML.

EDUCATION

National Institute of Technology Agartala

India

Bachelor of Technology in Electronics and Instrumentation Engineering

Aug. 2023 – Present (Expected May 2027)

EXPERIENCE

sktime Enterprise Solutions GmbH

April 2026 – Present

Contract Engineer

Remote

- Implemented crash-safe, resumable benchmarking with incremental JSON checkpoints, SHA256 integrity checks, atomic writes, and failure isolation, preserving completed task–estimator results across interruptions, making large-scale benchmarking robust
- Integrated global pretraining into sktime’s forecasting evaluation workflow, enabling supported models to pretrain on panel data and forecast individual test series without requiring `y` at prediction time
- Added weekly GitHub Actions CRON integrity tests for forecasters, classifiers, and transformers so breakages in a 500+ estimator library surface regularly

German Center for Open Source AI

Dec. 2025 – Jan. 2026

Contract Engineer

Remote

- Indexed sktime’s 500+ estimator into AI-on-Demand (Horizon Europe) and added a pre-commit CI quality job for maintenance
- Prototyped research-artifact linking for AI-on-Demand: Zenodo PDF loaders, URL-to-markdown conversion, and publication-algorithm lookup APIs
- Reproduced benchmark artifacts from the M4 Competition and Time Series Bake-Off study as reusable sktime catalogues, enabling researchers to reproduce and extend experiments with few lines of code

European Summer of Code

May 2025 – Aug. 2025

Open Source Contribution Grant

Remote

- Shipped `evaluate()` for evaluating time-series classifiers in sktime, built `ClassificationBenchmark` on top of it for statistical benchmarking of classifiers, and refactored `BaseBenchmark` to make the API contract cleaner
- Migrated popular time series forecasting and classification datasets to Hugging Face and wrote dataset downloaders in strategy-pattern, cutting the download payload by over 60%, further designed dataloader classes for fetching datasets from Hugging Face and loading them as sktime-compatible in-memory objects
- Designed and introduced catalogue objects for sktime benchmarking, enabling reusable, configurable collections of datasets, forecasting tasks, and estimators to streamline benchmark configuration, execution, reproducibility, and extension across experiments

TECHNICAL SKILLS

Languages: Python, C++, Bash

ML & Data: scikit-learn, NumPy, pandas, sktime, PyTorch, Hugging Face Transformers

Infrastructure: Docker, Slurm, GitHub Actions, Git

VOLUNTEERING

German Center for Open Source AI

Sep. 2026 – Present

Council Member and Core Developer

Remote

- Elected council member of the non-profit umbrella hosting key projects in the data science ecosystem including sktime, SHAP, pgmpy etc., responsible for day-to-day operations

SPIC MACAY

Dec. 2023 – Dec. 2024

Public Relations Lead

NIT Agartala

- Co-organized a 17-day Viraasat festival with 500+ attendees, coordinating artists including Grammy awardee and Bharat Ratna, university officials, and student teams