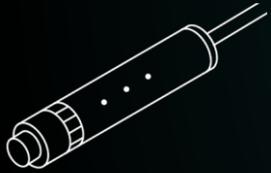


 **anphi**
DIGITAL NOISE

WHAT IS SNIPHI

Sniphi Digital Nose is an industrial-grade platform for developing and deploying scent recognition solutions. It can be used in food manufacturing, agriculture, quality assurance, and hazard prevention.

CHEMICAL
SENSORS



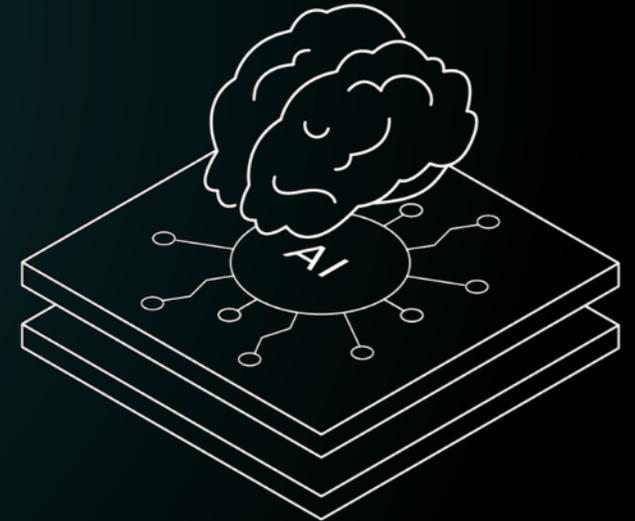
IOT TERMINAL



MY SNIPHI PLATFORM
(DATA LABELING, TESTING & MODELING)

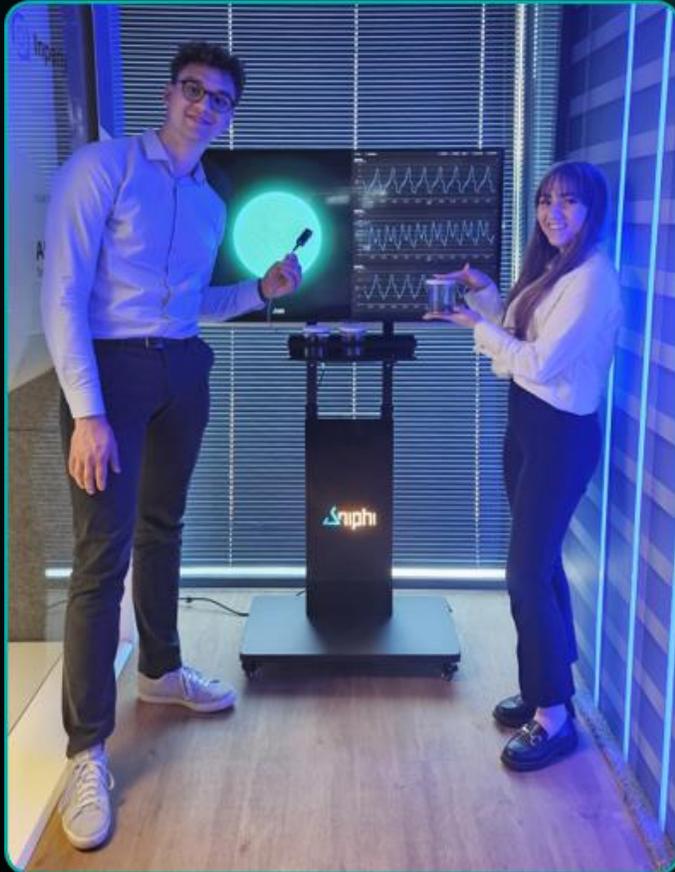


SMART AI SOLUTION
(ON THE EDGE & IN THE CLOUD)



WHAT IS SNIPHI

From the user's perspective, Sniphi is a **small device** that recognizes previously learned scents and classifies them in a clear, user-friendly way.



The Sniphi demo was showcased at **Microsoft Innovation Hub**

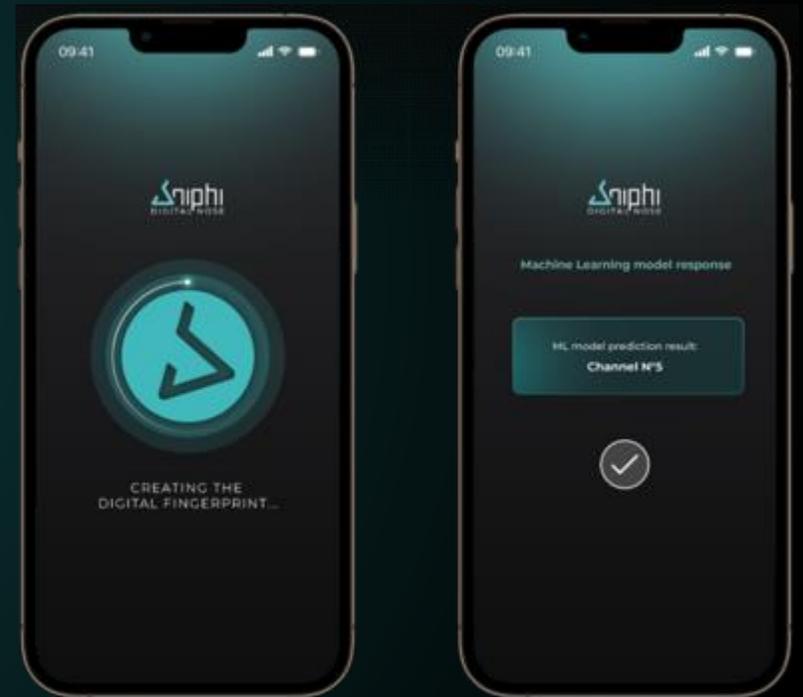


The device can be integrated with other machines or robots

WHAT IS SNIPHI

The solution can be easily and quickly implemented in a corporate environment.

Sniphi integrates seamlessly into your organization using trusted Microsoft services like **Power BI**, **Power Apps**, and **IoT Hub**. Its low-code, scalable architecture ensures quick deployment, easy customization, and compatibility with existing IT systems, enabling rapid adoption without specialized expertise.



CORE ELEMENTS OF SNIPHI PLATFORM

Sniphi combines hardware, AI, and cloud automation into a unified platform that accelerates innovation in scent classification technology:

1. Hardware & Prototyping

- Established hardware architecture: Sensor Hubs, IoT Terminals, Test Bench

2. Software & Automation

- Data labelling and management tools
- Efficient AI modeling
- Automated remote testing and reporting
- MySniphi cloud environment based on Microsoft Services

3. Experimentation & Validation

- Dedicated lab for experiments and performance validation
- Collaboration with leading research institutes

4. Commercial Readiness

- Proven deployment path from lab to commercial applications

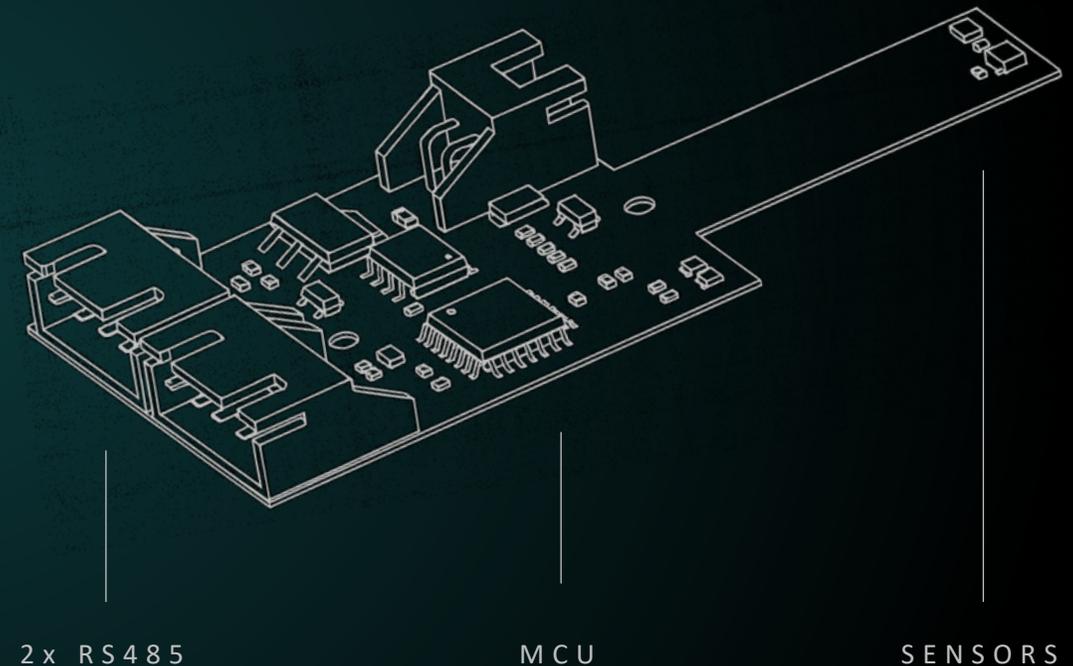


SNIPHI COMPONENTS – THE SENSOR HUB

A modular IoT-class device for rapid prototyping of new scent-based AI solutions.

Key Features:

- Industry-standard connectivity (RS485)
- Built-in data processing capability
- Supports creation of **Sensor Arrays** for complex usecases
- AI-on-the-Edge ready
- IIoT ready - seamless connection with the Sniphi IoT Terminal and cloud



SNIPHI COMPONENTS – DATA LABELING

MySniphi utilizes Power Apps for efficient, cloud-based data labeling operations.

Key Features:

- Easy setup and labeling of experiments
- Simple design of new experiments
- Live connection to the central database
- Single source of truth for ML modelling
- Acts as an experiment log
- Easy user management (Entra ID)

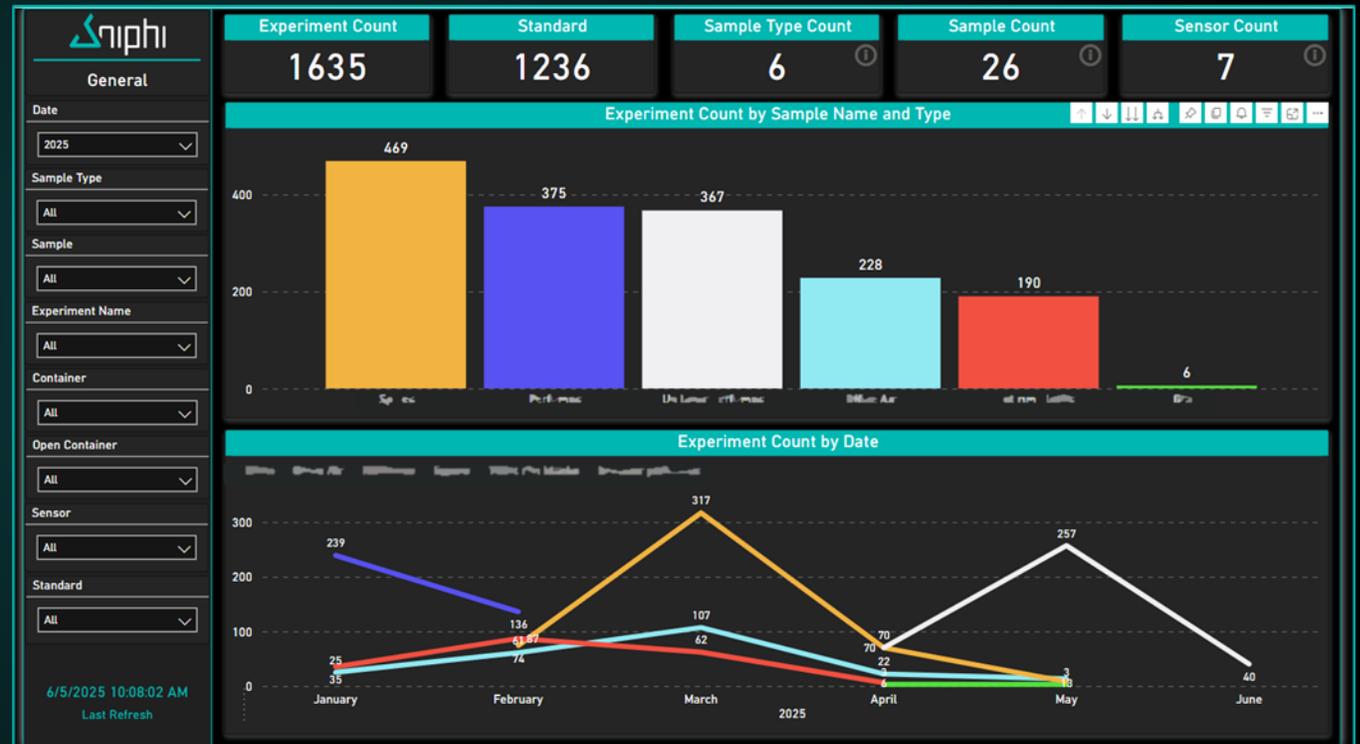
The screenshot displays the 'Experiments App' interface. On the left, a list of experiments is shown, including details like dates, names, and statuses (e.g., '27.08.2025_coffee_blend_1', 'Ended', 'batch 1'). A 'Go to Sniphi App' button is at the bottom of the list. The main area on the right is a form for creating or editing an experiment. It includes fields for 'Sample Type' (ABC), 'Sample' (Coffee), 'Sample Variant' (Cherry AA 100% Robusta Light Roast), 'Experimenter' (Bartosz T), and 'Experiment name' (18.09.2025_Robusta). Other fields include 'Sensor' (001C0011585650032036313), 'Container' (Clip jar), 'Description' (Sensor - batch 1), 'Quantity' (40), and 'Quantity unit' (grams). There is also a toggle for 'Is container open?' (No) and a 'portNumber' field. A 'Go to Sniphi App' button is also present at the bottom of the form.

SNIPHI COMPONENTS – ANALYTICS

MySniphi offers a suite of automated reports for every stage of data processing.

Automated Reports for:

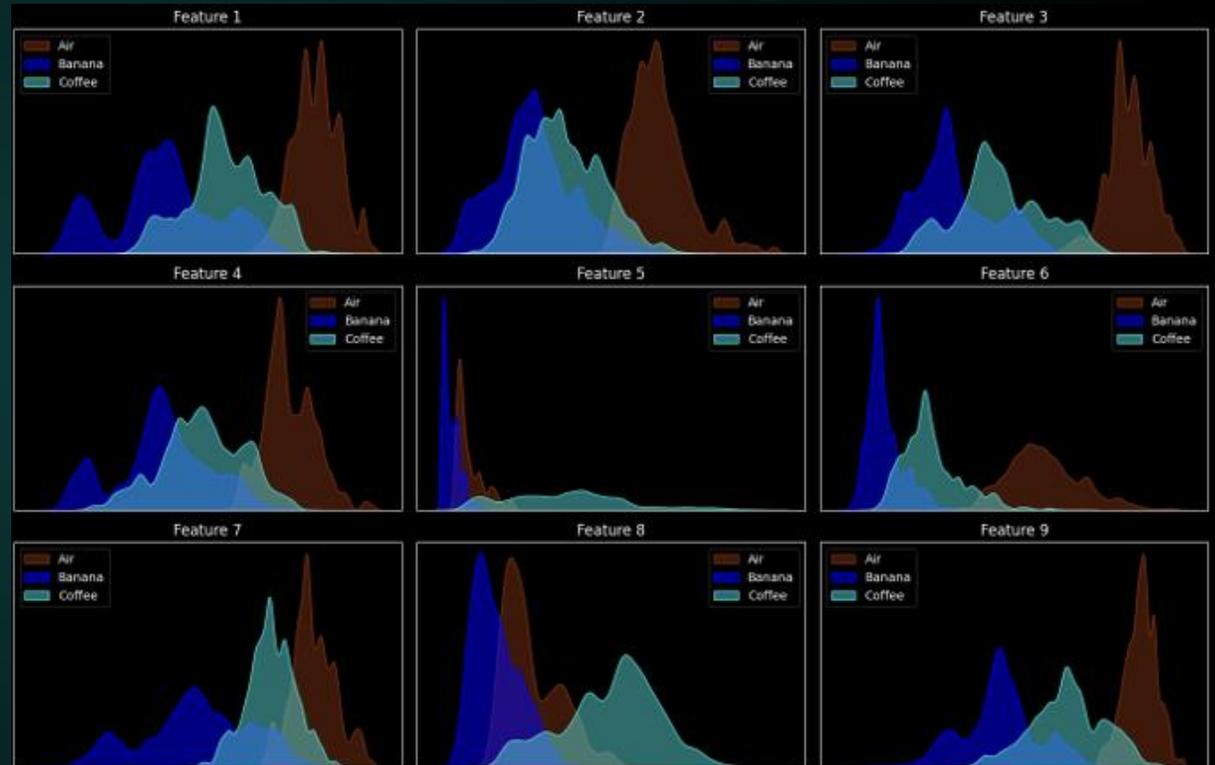
- Data capturing process
- Sensor testing
- Software testing
- Experiment analytics
- Data labeling summary
- Machine learning model analytics
- Others



SNIPHI COMPONENTS – AI MODELING

Captured and labeled sensor data are used for the development of AI solutions.

- Cloud-based access
- Visual representation of feature distribution for rapid model evolution
- Sensor arrays enable easy addition of new data dimensions
- Live data and feedback loops help you understand the nature of each use case
- The environment supports building both lightweight ML models and advanced neural networks
- Models can be deployed either on the Edge or in the Cloud
- Fully scalable



SNIPHI COMPONENTS – DATA STREAMING

MySniphi utilizes Data Explorer for efficient, scalable real-time data analytics.

Key Features:

- Real-time data streaming and visualization
- Time-series database (ready for heavy traffic)
- Easy and fully scalable
- Single source of truth for ML modelling
- Easy deployment for any lab
- Multiple devices available via cloud connection



SUPPLEMENTARY INFORMATION



VOC anomaly detection for stored-commodity pest



ered via long, often complex supply chains through which inspection infestation could remain undetected until significant damage has per outlines a fast, non-destructive screening method based on the c compounds (VOCs) headspace of a sealed unit capable of robust estation regardless of intruding species and particular commodity. The y VOCs signatures obtained by temperature-modulated metal oxide being trained on an uninfested commodity headspace allowing for les possibly indicating ongoing infestation.

se to rise, with greater and increasing speed development, however, ability to rapid spread within consignments. ge alters geographic pests, expanding the estations. Infestation pests is known and grade of stored microenvironments ion by moulds leading

ry preventive measures is effective inspection, forementioned factors erns that traditional ecoming increasingly on of containers, lots, ed uniform sampling



[Food infestation detection - Sniphi white paper](#)



[Electronic Nose Demo - Sniphi scent classification video](#)



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