

BOOTCAMP 2026

DECISION INTELLIGENCE: AI & HUMAN-IN-THE-LOOP



UCBM
ACADEMY

Healthcare | Energy | Public Services



8TH Edition

24 AUGUST - 12 SEPTEMBER 2026

Homerton College Cambridge (UK)

WHAT IS THE BOOTCAMP?

An intensive 3-week programme of **lectures, labs and project work** to acquire technical skills and soft skills based on **industry use cases**. Tutoring and teamwork are essential parts of this team learning journey.

WHERE IS THE BOOTCAMP?

The Bootcamp offers a **truly immersive Cambridge experience**, based at **Homerton College** in the heart of the city. Participants live and learn in an authentic Cambridge college environment, experiencing the University's unique academic atmosphere and vibrant student life.

As a unique highlight of the programme, participants also have the opportunity to attend lectures and hands-on lab sessions within the **University's Engineering and Computer Science Departments**, led by distinguished faculty members who play a central role in the Bootcamp, providing direct exposure to cutting-edge research and innovation.

WHAT ARE THE LEARNING OUTCOMES?

By the end of the Bootcamp, participants will be able to:

- apply the main tools and methods of IoT and AI to real industry use cases
- work in a diverse group of people to ideate, develop and present a solution to industry partners
- improve and use their soft-skills in terms of team work, presentation skills and effective communication

A full-immersion experience learning by doing together.



Homerton College Cambridge

PROGRAMME

Designed in collaboration with **academics and professionals**, this is a short and effective **3 week course** based on **experiential learning and practical activities**. Click [here](#) for the full program.

The 120 hour programme includes:

Tech Lectures (IoT & AI)
Tech Labs with tutors

Team Project Work
Transferable Skills Training

Business Lectures
AI and Ethics



Academic Tutors

Guide all the labs after each lecture to ensure participants' learning



Industry Tutors

Help the teams with their work to ensure the successful completion of projects



Transferable Skills Training

Communication and presentation skills, project management, leadership and teamworking skills;



Business Studies

Benchmarking and Business Modelling.

PITCH DAY

During the final **Pitch Day** on the 11th September each team will present their solution to a **Jury Panel** of industry experts. The team presentations will be followed by a formal **Gala Dinner** and the **Award Ceremony** at **Queen's College**.

INDUSTRY USE CASES

We believe in **project-based learning**. The programme is entirely built on use cases provided by our industry partners. Participants work in teams to find **innovative solutions to real problems**.



Smart Workforce Planning for Extreme Heat Conditions **AI-driven decision support to dynamically assess heat risk, protect workers' health, and maintain operational productivity**

Extreme heat significantly increases health risks for manual workers while reducing cognitive performance and operational efficiency. This use case proposes an AI-powered system that integrates environmental data, conditions, and workforce characteristics to dynamically assess heat-stress risk and support safer activity planning. By providing adaptive scheduling and risk-aware recommendations, the solution enhances workforce resilience, improves decision responsiveness, and helps organizations to maintain productivity under climate stress conditions.



The Block Co-Pilot : Multimodal Edge AI System as a Cognitive Decision Amplifier for Urban Micro-Communities

Urban micro-communities face growing decision overload, isolation, and resource inefficiency. Families, elderly residents, and neighbors repeatedly solve the same daily problems alone, from childcare and transport to groceries and care support, under stress and with limited coordination. How can technology help to address this fragmentation whilst preserving privacy and amplifying collective decision-making for shared community resilience?



IMPOSSIBLE. DELIVERED.

AI-Driven Clinical Pathway Optimization for Chronic Disease Management

Chronic disease management suffers from fragmented clinical data, slowing care and increasing adverse outcomes. Conditions like diabetes, hypertension, and heart failure are most affected: delayed data interpretation hinders early diagnosis and causes avoidable hospitalizations. GenAI can help transform complex, heterogeneous data into actionable insights - empowering physicians to optimize care pathways and delivering personalized feedback to patients to improve treatment adherence, ultimately enhancing clinical outcomes across the entire care continuum.



**Università
di Genova**

AI-based forecast and decision support for smart buildings energy management

Smart buildings energy management face the transition toward renewables and liberalized markets, transforming consumers into prosumers. The challenge is developing AI-based short-term forecasts for consumption and generation, implementable on resource-constrained devices, to be integrated in a human-in-the-loop platform where users are guided toward efficient and sustainable energy management.

ENTRY REQUIREMENTS

The Bootcamp is designed for **students, researchers and professionals** who want to have a **multi-disciplinary experience** and **want to acquire IoT and AI skills** in close contact with industry partners.

To enroll in the Bootcamp, we strongly recommend that participants have:

- B2 level or higher of English
- basic computing skills and familiarity with at least one programming language.

Please refer to the [Registration Guidelines on Bootcamp 2026](#) for the application procedure.

SCHOLARSHIPS

For eligibility requirements and scholarship application procedure, please refer to the [Scholarship Guidelines on Bootcamp 2026](#).

We particularly welcome applications from international participants and women in STEM.

COSTS

	UCBM	Regular
Course only	€ 3.000,00	€ 4.000,00
All inclusive	€ 4.200,00	€ 5.300,00

PARTNERS



ENDORSED BY





**FRANCESCO
CONTE**

Scientific Director UCBM



**CLAUDIA
PEVERINI**

Program Director UCBM



**ROSSELLA
FERRERI**

Administration Manager
UCBM Academy

ADVISORY BOARD



**SILVIA
CARRACINO**

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TUTORS



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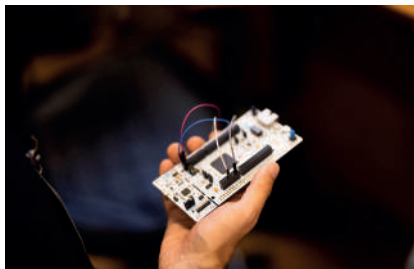


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HIGHLIGHTS FROM PAST EDITIONS





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bootcamp@unicampus.it

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