Subject: Internship Project Proposal

Code Name	PTA_EN_63903_26/10/2026 16.00.45
Date	26/10/2026 16.00.45
Target	Bachelor's Degree - Data Analysis

Host Institution

Host Institution	Innova Società Cooperativa
Protocol	63903
Protocol Date	22/05/2024
Country	Italia
City	Milazzo
Address	Via colonnello berte, 100, 98057
Website	www.innovame.it
Employees Number	3
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Project Supervisor

Name and Surname	Giuseppe Giorgianni
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Internship Project Details

Title	Design and Evaluation of an Edge-Based Intelligent Document Classification System

Detailed Description: The objective is to develop a system that automatically classifies documents received as email attachments and stores them in the appropriate folders in the company's cloud storage.

The proposed solution would use a Raspberry Pi for local processing, allowing documents to be analysed near the point of receipt before being transferred to the cloud. For example, the system could identify contracts, receipts, technical manuals and other document types and organize them according to the relevant client and document category.

Main activities

1. Analyse the requirements and define the document categories and system architecture.
2. Prepare a dataset of representative documents and develop a document preprocessing pipeline.
3. Implement and compare different classification approaches, starting with a rule-based baseline and machine-learning methods.
4. Deploy the selected classification model on the Raspberry Pi and evaluate its performance.
5. Integrate the classification process with email attachment handling and cloud document storage.

6. Evaluate the system in terms of classification accuracy, precision, recall, F1-score, processing latency and hardware resource consumption.
7. Compare local edge processing with a cloud-based alternative, considering processing efficiency, data transfer and privacy implications.

The implementation would initially focus on a limited number of document categories, with the scope adjusted according to the available data, hardware and internship duration.

Topics	AI at the age, AI agent
Reimbursement of Expenses (YES/NO)	NO
Refund Amount	
Availability for Travel (YES/NO)	NO
Kind of employment	Full time
Duration in months (max 12)	10
Duration in hours	150
Internship Date Start	07/11/2026
Internship Date End	07/08/2027
Number of Open Position(s)	1

Internship Skills

Required Skills: Software development, conoscenza dispoistivi edge

Other Skills	lavoro in team, flessibilità oraria