



Subject: Internship Project Proposal

<i>Code Name</i>	PTA_EN_133526/2025 _08/01/2026 13.23.05
<i>Date</i>	08/01/2026 13.23.05
<i>Target</i>	Bachelor's Degree - Data Analysis

Host Institution

<i>Host Institution</i>	Cooperativa Servizi Sociali
<i>Protocol</i>	133526/2025
<i>Protocol Date</i>	03/10/2025
<i>Country</i>	Italy
<i>City</i>	Messina
<i>Address</i>	Via Risorgimento 93, Messina (ME), 98123
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Project Supervisor

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Internship Project Details

<i>Title</i>	AI-assistant for automatic drafting of medical home-visit reports
<p><i>Detailed Description:</i> The project aims to design and implement a pipeline that transforms free-text “dictations” of home care visits into a structured draft of ADI visit reports, aligned with predefined templates (e.g., intake form, periodic visit, short clinical-care report). The healthcare context is Integrated Home Care (ADI) in Sicily, where documentation is largely paper-based and poorly structured, creating a high bureaucratic burden for professionals; the micro-assistant supports digitalization and reduces manual form-filling effort using speech recognition outputs and large language models (LLMs).</p> <p>The student will:</p> <ul style="list-style-type: none">Analyze ADI document models and select 1–2 target templates to be generated.Build a synthetic dataset of 60–80 “dictations” and corresponding structured records (JSON/CSV) with demographic fields, diagnoses, problems, interventions and follow-up.Implement a Python NLP pipeline to extract key sections (reason for visit, brief anamnesis, vital signs, interventions, critical issues) and auto-complete ADI forms, with basic quality checks (mandatory fields and reminders for missing information).Define a data structure compatible with hypothetical integration into an Electronic Health Record (EHR), including patient identifiers and minimal coding of diagnoses/problems, to facilitate future integration in broader e-health systems.	



<p>Tools and technologies: Python, standard NLP libraries (e.g., spaCy/transformer-based models), JSON/CSV handling, and optionally simple rule-based components for information extraction; synthetic data only will be used, in full compliance with privacy and data protection constraints.</p>	
<i>Topics</i>	Data science / Natural Language Processing for e-health (Integrated Home Care – ADI)
<i>Reimbursement of Expenses (YES/NO)</i>	NO
<i>Refund Amount</i>	0
<i>Availability for Travel (YES/NO)</i>	NO
<i>Kind of employment</i>	Part time
<i>Duration in months (max 12)</i>	3
<i>Duration in hours</i>	150
<i>Internship Date Start</i>	15/02/2026
<i>Internship Date End</i>	15/07/2026
<i>Number of Open Position(s)</i>	2

Internship Skills

<p><i>Required Skills:</i> Basic knowledge of Python programming and data manipulation (JSON/CSV, pandas).</p> <p>Introductory experience in Natural Language Processing (tokenization, entities/keywords extraction, simple pattern rules).</p> <p>Familiarity with machine learning workflows and version control (e.g., Git).</p>
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Interest in e-health, clinical documentation or healthcare information systems.

Other Skills

Ability to work independently while interacting regularly with the supervisor for design decisions.

Precision and attention to detail in handling clinical-like information, even when synthetic.

Good written communication skills in English for documenting methods.

Problem-solving attitude and willingness to iterate on prototypes based on feedback.