



Subject: Internship Proposal

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Project Supervisor

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Project details

<i>Title</i>	Affective Computing: Speech and Facial Emotion Recognition Systems
<p><i>Detailed description:</i> The aim of this internship is to study centralized distributed machine learning techniques for emotion recognition within the framework of Affective Computing. The internship will consider two main research directions:</p> <ol style="list-style-type: none"> 1. Speech Emotion Recognition (SER) Students will implement and test baseline machine learning models for emotion classification from speech signals. The work will include feature extraction, dataset preprocessing, model training, and performance evaluation. 2. Facial Emotion Recognition (FER) Students will conduct a feasibility analysis of facial emotion recognition systems. The activity will include literature review, analysis of publicly available datasets, study of convolutional neural network architectures, and evaluation of computational requirements. Pre-trained models could be tested without full training from scratch. <p>The internship activities will therefore include:</p> <ul style="list-style-type: none"> • Literature review on Affective Computing • Dataset analysis for SER and FER • Implementation and testing of baseline ML models (primarily for speech emotion recognition) • Feasibility study and comparative analysis of facial emotion recognition approaches • Performance evaluation and final report 	
<i>Duration (month – max 12)</i>	6



<i>Duration (hours)</i>	150
<i>Open positions</i>	2

Internship Skills

<i>Technical requirements:</i> • Basic knowledge of Python programming • Basic knowledge of Machine Learning	
<i>Other skills</i>	<ul style="list-style-type: none">• Interest in Artificial Intelligence and Human-Computer Interaction• Ability to work autonomously• Teamwork skills