

CS491 - Fall 2025 - Project Information Form

Please fill the form for your CS491 Design project.

It is sufficient for one team member from each team to fill out this form.

* Required

Email *

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Name of the Project *

Scuba - Mental Health

One paragraph description of the project *

We are developing a mobile application that passively detects early signs of depression by analyzing multimodal data from smartphones and wearable devices. This includes location and mobility patterns, step count, sleep quality, call and message metadata, and, where explicitly consented, voice prosody features. Additional behavioral indicators such as screen on/off events, phone usage statistics, typing patterns, and heart rate variability are also incorporated. Our approach integrates these data sources through a privacy-first design to provide personalized risk insights and evidence-based recommendations for users and care teams, enabling timely and proactive interventions. The platform is built on transparent consent, strong encryption, and full user control, and serves as an early-warning and self-support tool rather than a clinical diagnostic system.

Supervisor Name and Lastname: *

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Innovation Expert Name and Lastname: *

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The URL of the Project Web Page: *

<https://scuba-mental-health.netlify.app/>

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