



DeepFinance



European Union
European Regional
Development Fund

ΕΡΑνηΕΚ 2014-2020
OPERATIONAL PROGRAMME
COMPETITIVENESS
ENTREPRENEURSHIP
INNOVATION



Co-funded by Greece and the European Union



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DeepFinance at a glance

EU and National EYDE ETAK research action

Coordinated by Aristotle University of Thessaloniki
(Prof. Anastasios Tefas)

3 Partners

Start date: 28.7.2020, duration 36 months



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DeepFinance consortium

Academic Partner



Industrial Partners

DATASCOUTING

SPEEDLAB



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DeepFinance objectives

Develop deep learning tools for automated portfolio management aiming to achieve better performance compared to the currently used strategies

Develop a platform for semantic analysis of social media streams, e.g., twitter, blogs, etc., in order to provide semantic and sentiment analysis services

Integrate semantic and sentiment analysis tools in order to develop portfolio management tools that take into account the information regarding the market's sentiment



DeepFinance research objectives

Develop robust agents, using deep learning and deep reinforcement learning methods, aiming to directly maximize the expected profit

Develop novel price control strategies, where the agent decides for several variables, e.g., quantity, price and time to place an order, at the same time

Develop and integrate multi-modal deep learning methods for portfolio management that take into account heterogeneous and multi-modal information



DeepFinance workplan

Divided into 4 work packages (WP)

WP1: Requirements Analysis and Specifications

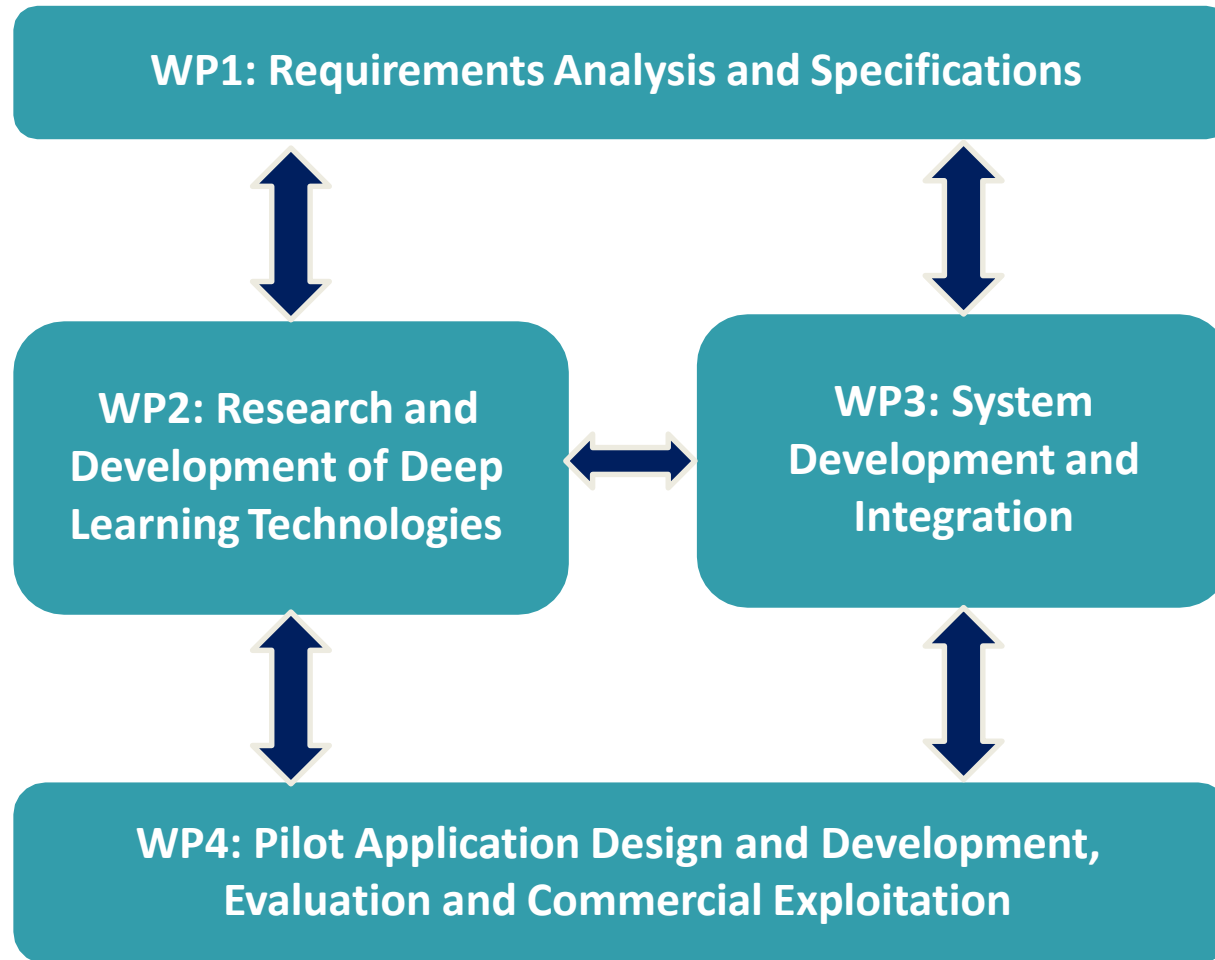
WP2: Research and Development of Deep Learning Technologies

WP3: System Development and Integration

WP4: Pilot Application Design and Development, Evaluation and Commercial Exploitation



DeepFinance development cycle



DeepFinance expected results

Development of an innovative product which will provide advanced semantic analysis and emotion extraction services from social media flows in the cloud

Easily accessible service – without requiring the existence of any infrastructure by the customers

Low-cost competitive products, fully adapted to the needs of customers for portfolio management



DeepFinance expected impact

The provision of an integrated platform for analyzing information from social network flows in the cloud, as well as a number of tools for market analysis and financial portfolio management

Opportunity to enter new markets for industrial partners by developing a wide range of state-of-the-art information analysis products



Contact

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