**INTERNSHIP DESCRIPTION**

**Research Assistant in the**

**Department of Economics and Finance**

**on the research project:**

**“Anomaly detection in bank transaction data”**

***1. Institutional details***

* Tutor name and email: Professor Alessio Farcomeni alessio.farcomeni@uniroma2.it
* Economic fields: none
* Internship start date (please indicate if flexible or not): June 2024 (flexbile)
* Full-time/Part-time: Part-time

***2. Skills and Experience required***

* Languages required: Italian
* Degree requirement: Enrollment in MSc Economics
* Skills required: excellent knowledge of R or Python statistical software, good knowledge of statistical techniques for big data

***3. Job description: “Data management and analysis for Banca Intesa”***

* The objective of this research project is to manage, clean, describe, and perform an initial assessment in terms of anomaly detection for millions of transactions (both wire transfers and card payments) by account holders of Banca Intesa San Paolo in Italy. The main aim of the project is identification of anomalies (e.g., fraudulent transactions).
* The intern will be involved in data management, cleaning, and analysis; in coordination with Prof. Farcomeni and the Banca Intesa team that allows access to the anonymised data set. The project is developed with the CN1 – Spoke 1 – PNRR project .
* The intern will develop the following skills: big data management, cleaning, and analysis.

**Please note:** The student must complete 150 internship hours over the course of at least three months and submit the evaluation documents and timesheet at least 45 days prior to his/her graduation. Upon termination of the internship, the Tutor will be required to send immediate notice to Desk Imprese Economia Tor Vergata deskimprese@economia.uniroma2.it with msc\_economics@economia.uniroma2.it in copy so the student may obtain credit recognition for the internship activity.