

Member Details:

1. Gaurish Baliga - 16010121010 - (Comps)
2. Pargat Singh Dhanjal - 16010121045 - (Comps)
3. Rahul Dandona - 16010421015 - (IT)
4. Arya Nair - 16010421063 - (IT)

Scope:

For our group project, we are developing a **Fund Trail Analysis Tool** that processes various formats of financial statements to identify illicit financial activities. We are using **OCR technology** to standardize different transaction formats, which are then processed and analyzed using **Machine Learning algorithms**. Our primary goal is to provide insights into abnormal patterns, monitor money flow, assess risks, and generate custom reports for government agencies. Additionally, our project aims to contribute to **cybersecurity** by detecting fraud, money laundering, and investigating cyber-crimes.

Applications:

Our project's application area primarily lies in **cybersecurity and financial compliance**. It is designed to aid in detecting and preventing financial crimes, including fraud and money laundering, by analyzing the flow of funds across various channels. The tool we are developing can be employed by **financial institutions, government agencies, and law enforcement** to maintain the integrity of financial systems, ensuring transparency and accountability.

Research Papers:

1. https://www.researchgate.net/publication/346894695_Financial_Crime_Fraud_Detection_Using_Graph_Computing_Application_Considerations_Outlook
2. <https://www.sciencedirect.com/science/article/pii/S0167923620300580>
3. <https://ar5iv.labs.arxiv.org/html/2103.01854v1>
4. <https://www.mdpi.com/2079-8954/11/11/539>