Paper Name - Mastering Financial Management With Artificial Intelligence Certification Programme

Paper Code – VOC154

Course Objective –

This certification programme equips participants with essential AI knowledge and strategies for financial management, fostering deep understanding, critical thinking and problem-solving abilities through theoretical insights and practical applications.

Course Content -

Unit - 1 Theory

Introductions to AI and its applications. Important AI tools. Learning ChatGPT. Extracting information from AI tools. AI and Microsoft Excel. Powerful prompting techniques. Presentation making using AI. Impact of AI in financial management. Verifying AI generated data and why it is a must. Soft skills. Ethical considerations and social impacts. Understanding de-centralised finance.

Unit - 2 Theory/ Practical

Algorithmic trading strategies and AI. Benefits and limitations of algorithmic strategies in trading. Use of AI techniques to capitalise market opportunities.

Unit - 3 Practical

Application of machine learning algorithms for predictive stock pricing, market volatility and customer behaviour. Risk assessment. Reliability of automating risk management.

Unit - 4 Practical

Working on a large finance data sheet to derive relevant information

Total weightage of Theory - 40% of marks, 15 hours (1 Credit)
Total weightage of Practical - 60% of marks, 30 hours + 30 hours (2 Credit)

Practicum Work -

At least 4 activities should be given. Two activities will be selected by the students for their assessment of Practicum Work.

ACTIVITY 1: Students will practice basic data analysis techniques using Excel, such as sorting, filtering and creating pivot tables, to analyse financial datasets and extract insights.

ACTIVITY 2: Students will engage in discussion using an AI meeting agent on Ethical dilemma and will provide a report on the subject.

ACTIVITY 3: Students will design and develop a simple chatbot using AI technologies to assist users with financial queries.

ACTIVITY 4: Students will develop a personal finance budgeting plan, tracking income, expenses and savings goals using an AI budgeting app.

Learning Outcomes –

Enhanced productivity. Learning advanced analytical skills. Working efficiency in routine work. Understanding the importance of strategic decision making. Bringing operational efficiency in the work-flow. Understanding Risk management. Cutting edge insight to AI driven financial management. Soft skills development.

Job Prospects-

Students of this programme can pursue careers as financial analysts, data analysts, risk managers, algorithmic traders, compliance officers, underwriters, fintech specialists, financial planners and research analysts. They can leverage AI tools to optimise career opportunities for them.

Skill Partner-

SNS Innovation Labs Pvt. Ltd.

Suggested Reading –

1. The AI Economy: Work, Wealth, and Welfare in the Robot Age by Roger Bootleocial
2. Artificial Intelligence in Finance by Bernhard Warner
3. Exploring AI Tools: A Comprehensive Guide To ChatGPT And Beyond by Satyen Srivastava