



OppenFynn Innovation Labs®



*Building Intelligent Systems  
using Deep Neural  
Networks and  
Reinforcement Learning*

<https://www.oppenfynninnovationlabs.com/>

<https://www.youtube.com/@oppenfynninnovationlabs>

<https://www.linkedin.com/company/71671667/admin/dashboard/>

GSTIN: 29AAHFO2616F1ZB

# Topics Covered

## Online Ad Click – Through Prediction using Classification Algorithms

## Finding Topic Correlation in Natural Language Processing (NLP) using Topic Modeling and Clustering.

- Unsupervised learning
- NLP basics and exploring NLP libraries.
- Corpora /Tokenization/ PoS Tagging/ Name Entity Recognition (NER)/ Stemming/ Lemmatization/ Semantics
- Transformer Architectures

## • Image Classification using Convolutional Neural Networks (CNN)

- CNN Building Blocks
- CNN Architectures
- Visualizing the convolutional filters
- Data Augmentation

## • Recurrent Neural Networks for Predicting with Sequences

- Introduction to Sequential Learning
- Breaking Free from Long – Term Dependencies with Long Short Term Memory
- Building Text Generators

## • Making Decisions with Reinforcement Learning (RL) in Complex Environments

- Basics of RL
- Approaches to RL
- Environment setup with OpenAI Gym
- Dynamic Programming
- Q Learning Algorithm
- Monte Carlo Learning



# Topics Covered Cont.

## Financial Data Analytics

- Back-testing of Financial Data
- Basics of Statistical operation using excel, mean, Simple moving average
- Advanced excel logical operations, calculation of standard deviation , variance and co-variance.
- Prediction expected range of financial asset underlying using confidence interval and p-value
- Monte-Carlo simulations using in-built Excel Functions



# About us



OppenFynn Innovation Labs<sup>®</sup>

- **OppenFynn Innovation Lab** is a GST registered partnership firm established in 2021 founded and incubated by the alumni from prestigious institutions such as Indian Institute of Science, Bangalore (IISc), and IIM-Kashipur , we have conducted numerous training programs, FDP and SDP in various prestigious institutions including VIT Vellore apart from conducting online training programs for industry professionals.
- Our firm has trademarks registered under class 41 and class 42 under Indian Trade Mark. We firmly believe in delivering quality training to the students.
- We have a team of skilled professionals, graduated from premier institutions having vast experience in academia , research and industry and working with new age technologies such as Artificial Intelligence, Machine Learning, Financial Data Analytics, Deep Learning, Quantum computing, Quantum Photonics. We believe in empowering youth to be future technocrats by providing state of art, world class educational e-learning services covering fundamental and practical aspects at affordable prices.

# Program Outcomes



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This program will enable students to:

- Demonstrate proficiency in advanced artificial intelligence (AI) and machine learning (ML) techniques, including deep neural networks, reinforcement learning, and natural language processing.
- Gain hands-on experience with industry-standard tools and platforms, such as TensorFlow, PyTorch, OpenAI Gym, and advanced Excel for financial analytics.
- Students will be able to design, build, and deploy intelligent systems that utilize deep learning, NLP, and reinforcement learning in real-world applications.
- Create a portfolio of projects that demonstrate their ability to tackle industry-relevant problems, including online ad click-through prediction, financial data analysis, and NLP tasks.
- Gain a clear understanding of how AI, ML, and data analytics are applied across different industries, including finance, marketing, and technology.
- *A course completion certificate/ Internship certificate will be provided at the end of the course*
- This will also serve as good advanced internship for students aspire for their career growth.

# Faculty Handling this Course



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Divya Shree S B.E., MTech, (Ph.D.); *Certified AI and Deep Learning Engineering* (IIT-Roorkee):- Seven Years of Industrial Experience



Dr. Narayan .K. B.E., MTech ., Ph.D. (IISc), EMBA (IIM-Kashipur); SMIEE :-

Recipient of Prestigious Award For Research Publication, VGST, Govt. of Karnataka, 15 Years of academic and research experience





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- Program Schedule: 45 Days
- **Course Fee: 6,000 + 18% GST = 7080 /- INR**
- Class Schedule: 4 Hours a week
- Mode of Delivery: Online live classes with recording access/ Offline Mode can be arranged based on specific request
- Hands on session: Python/PyTorch Framework, Advanced Excel
- Terms of Payment. **Full amount to be paid at the beginning of the course and no partial payment will be entertained. Course will be confirmed through confirmation mail on receipt of full payment.**
- Payment details

**OPPENFYNN INNOVATION LABS (GSTIN: 29AAHFO2616F1ZB )**

**Bank: IDBI Bank, Yelahanka Branch, Bangalore**

**Current Account No: 0694102000014076**

**IFSC Code: IBKL0000694**

**or**

**G pay to +918971876135**



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## THE TEAM



**Dr. Arjun Shetty**

*B.Tech(MIT Manipal), M.Tech(IIT Hyderabad), PhD(IISc Bangalore), PostDoc( Institute for Quantum Computing Canada)*



**Dr. Narayan K**

*B.E, M.Tech(MIT Manipal),MBA (IIM), PhD(IISc Bangalore)*



**Divya Shree.S**

*B.E, M.Tech, Certified AI and Deep Learning Engineer(IIT Roorkee)*



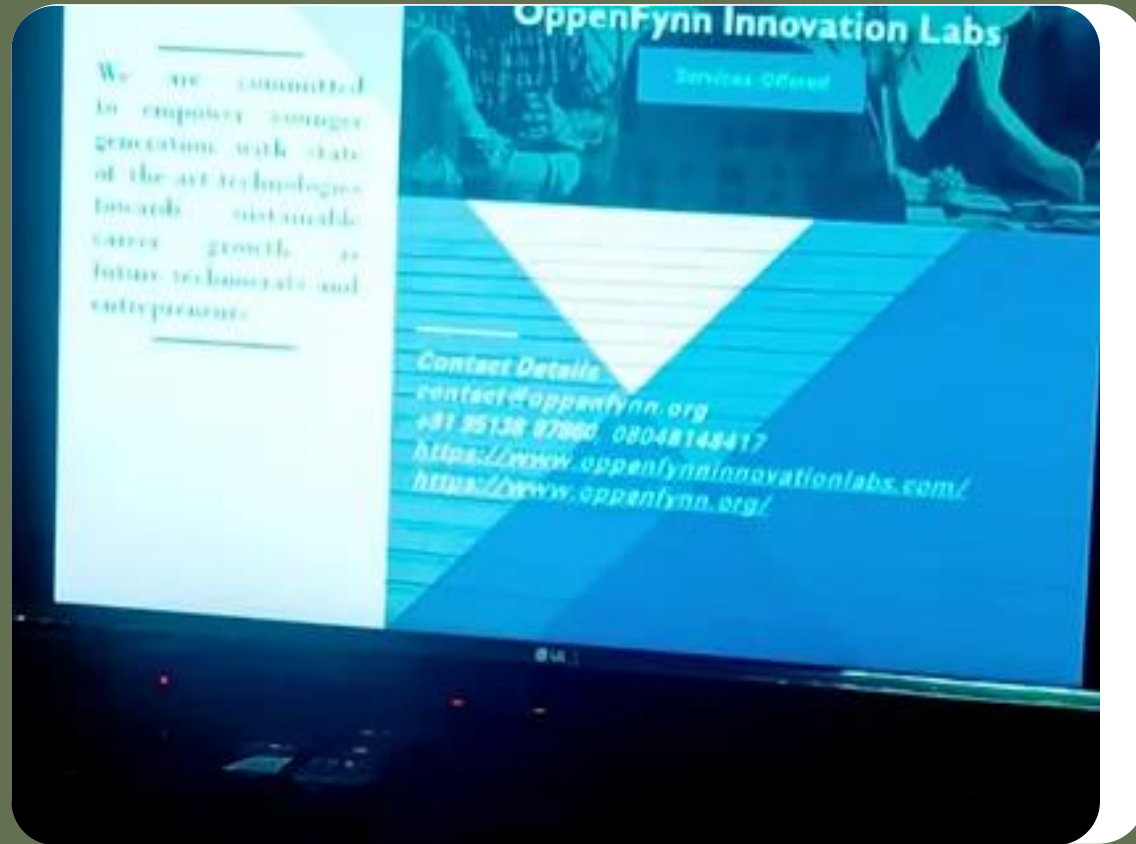
Tools we cover







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**THANK YOU!**

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