



**HUBDATA**  
IIIT HYDERABAD

June 26, 2022

# Overview

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3. 36-week Foundations of Modern Machine Learning
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# Introduction

The background features two large, overlapping geometric shapes. On the left, a dark teal triangle points towards the bottom right. On the right, a light beige triangle points towards the bottom left. These two triangles meet at a point near the bottom center of the slide, creating a symmetrical, abstract design.

# Introduction

## Outreach Programs

### On-campus and Off-campus programs

- ▶ 50-week Foundations of Modern Machine Learning - 250 intake (off-campus)
- ▶ 36-week Foundations of Modern Machine Learning - 180 intake (off-campus)
- ▶ 8-weeks paid Summer Research Internships - 100 intake (on-campus)

# 50-week Foundations of Modern Machine Learning

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# 50-week Foundations of Modern Machine Learning

## Course Details

- ▶ Chief Instructors - Prof CV Jawahar, Prof Anoop M, Dr Ravi Kiran
- ▶ Instructors - Wider pool of topic experts from IIT Hyderabad
- ▶ Live Interactive Session of 1.0 - 1.5 hrs duration per week
- ▶ Distinguished Lectures - occasional
- ▶ Distributed Personalised Tutorial Sessions - 20 per week
- ▶ Weekly assignments, Monthly Projects and Quarterly Exams
- ▶ Enrollment - 250 from all over India
- ▶ Started in Oct 2021, Expected to end by July 2022

# 36-week Foundations of Modern Machine Learning

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# 36-week Foundations of Modern Machine Learning

## Course Details

- ▶ Chief Instructors - Prof Anoop M, Dr Ravi Kiran
- ▶ Live Interactive Session of 1.0 - 1.5hrs duration per week
- ▶ Distinguished Lectures - occasional
- ▶ Distributed Personalised Tutorial Sessions - 20 per week
- ▶ Weekly Assignments, Monthly Projects and Quarterly Exams
- ▶ Enrollment - 180 from all over India
- ▶ Started in Jan 2022, Expected to end by July 2022



# 10th Edition of Workshop on Excitement of Research

# 10th Edition of Workshop on Excitement of Research



## Program Details

- ▶ **Date :** Thursday, 21 April 2022
- ▶ Invited Audience of over 650 - online Zoom
- ▶ Inaugurated by Prof PJ Narayanan, Director IIIT Hyderabad
- ▶ Prof CV Jawahar : IIIT Hyderabad
- ▶ Anbumani Subramanian : Principal Research Engineer, Intel Inc
- ▶ Prof U Deva Priyakumar : IIIT Hyderabad
- ▶ Prof Syed Azeemuddin : IIIT Hyderabad

# Ongoing Programs

The slide features a minimalist design with two large, overlapping geometric shapes at the bottom. On the left, a dark teal triangle points upwards towards the center. On the right, a light beige triangle points downwards towards the center. The text 'Ongoing Programs' is centered in the white space between these shapes.

# Ongoing Programs

- ▶ 50-week FMML commencing from August 2022
- ▶ SRISHTI - 22
- ▶ National Expo Data-Driven Solutions NEDDS-22
  - ▶ Stakeholders from NM-ICPS - Govt, Academics, Industry, Start-ups, NGOs
- ▶ Springer LNCS International Conference on BDA2022 (Big Data Analytics)
  - ▶ Co-organiser

# Ongoing Programs-

## 50-week FMML - Aug 22

- ▶ Based on learnings from prior FMML programs
- ▶ Entry based on aptitude scores
- ▶ Academic inclination - more homogeneous
- ▶ Target - second year UG students only
- ▶ Administer course modulewise - one teacher per module
- ▶ Hire permanent teachers/mentors - underway
- ▶ DST confidence-building measure (large figures)

# Ongoing Programs

## Program Details

- ▶ Summer Internship Program at IIIT Hyderabad
- ▶ **Period :** 16 May to 30 Jun
- ▶ iHub funded Internship Program Rs 10,000 per student
- ▶ Preliminary Selection from 7600+ (2650) students all over India
- ▶ Admission Procedure - Exam (online + offline)
- ▶ 126 students to work in thirteen Research Centres
- ▶ 23 members of faculty currently supervising interns
- ▶ Centralised training program (TNA) progressing simultaneously
- ▶ 90 students listed to work remotely (unpaid)
- ▶ **Waiting List :** Another 450 candidates, shared internally

# Ongoing Programs-

## SRISHTI 22

- ▶ Goals, Objectives
  - ▶ To imbibe a sense of academic and research inquiry to interns
- ▶ Set expectations of interns
  - ▶ Cognitive, General Skills, Personal
- ▶ Resources to interns
  - ▶ Infrastructure, Compute
- ▶ Success Metrics
  - ▶ 40 percent of supervisors will re-appear next year
  - ▶ 20 percent of interns would publish a paper in a year
  - ▶ 10 percent of interns contribution would lead to product/patent in a year
  - ▶ 80 percent interns would report high satisfaction

# Ongoing Programs- SRISHTI 22

- ▶ 11:30 am - 2:30 pm - Lectures/Tutorials/Special Sessions (all weekdays from 18 May to 24 June)
- ▶ Progress Monitoring on Wednesdays - 18 May, 25 May, 01 June, 08 June, 15 June, 22 June



# Ongoing Programs-

## National-level Expo in November

- ▶ C-DAC India agrees to be a partner
- ▶ Workshop on HPC on second day
- ▶ Exploring options with Intel India

# Fresh Plans

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# Fresh Plans

## Outreach Activities

- ▶ Scale Online Courses - Public Universities
- ▶ Explore Long-term Online Internships - about to commence
- ▶ Approach NIELIT for exploring joint online program
- ▶ Joint Workshop [bda2022.org](http://bda2022.org) Dec 19-22, 2022 at Hyderabad