



Sri Sathya Sai Institute of Higher Learning
(Deemed to be University)



Predictive Analytics:

Theory, Tools & Applications

Faculty Development Program

Organised by

Department of Humanities & Social Sciences (DHSS)

Sri Sathya Sai Institute of Higher Learning (SSSIHL)

Prasanthi Nilayam Campus

1-5 April, 2026

**Open to Faculty,
Research Scholars
& IT Professionals**



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About the FDP

WHAT YOU WILL GAIN

AI & FOUNDATIONS

Kickstart your journey by mastering the **AI Toolkit**. This module will bridge the gap between human intuition and machine intelligence, covering **Generative AI** capabilities, **Statistical Thinking** and advanced **Excel for Analytics**. You will build your first EDA and learn to prompt LLMs for assisted coding in Google Colab.

PREDICTIVE ANALYTICS

Move from "what happened" to "what will happen." This core module focuses on **Problem Framing** and the mechanics of **Linear and Logistic Regression**. You will learn to build complete analytical pipelines, validate models through **Cross-Validation**, and communicate complex metrics to any audience.

ADVANCED ML & SQL

Master the heavy hitters of modern data science. This module will dive deep into **Random Forests, XGBoost**, Time Series Forecasting and Causal Inference. You will also gain essential **SQL Fundamentals**, learning to wrangle real-world datasets using Joins, Aggregations, and **pandas** for a professional workflow.

THE FINAL OUTCOME

The program concludes with **Explainable AI (XAI)** and **Causal Thinking**. You won't just build models; you'll learn to explain them using **SHAP**. The journey ends with **Data Storytelling** and a hands-on **Capstone Project**, where you'll present a live demo and build your professional portfolio.

Program Schedule

WHAT & WHEN

01-04-2026

9:00AM - 5:00PM

Generative AI, Statistical Thinking,
Excel & Your AI Toolkit

02-04-2026

9:00AM - 5:00PM

Regression, Classification &
Analytical Problem-Solving

03-04-2026

9:00AM - 5:00PM

Machine Learning, Forecasting &
Causal Thinking

04-04-2026

9:00AM - 5:00PM

Accessing & Understanding Data:
SQL, Python & Data Wrangling, Impact Analysis

05-04-2026

9:00AM - 5:00PM

Explainability, Data Storytelling,
Communication & Capstone Project

Resource Persons

MEET THE SPEAKERS



K V S Dileep

Head of Gen AI Education

Outskill

Dr. Bharadwaj Boddapaty

Researcher & Data Scientist

Optum



Dr. Sampath Lonka

Researcher & AI Specialist

Soulax

Sai Krishna Vadali

Lead R&D Software Engineer

Qualcomm



Dr. Olivier Dagnelie

Adjunct Faculty

SSSIHL



OUR PATRONS

Prof. B. Raghavendra Prasad, Vice-Chancellor, SSSIHL
Dr. Srikanth Khanna, Registrar, SSSIHL
Prof. P L Rani, Dean, Humanities & Social Sciences and
Language & Literature, SSSIHL

DEPARTMENT FACULTY

Dr. G Raghavender Raju
Dr. Rajabhushan Jagadish Nayak
Dr. Siva Kiran Guptha K
Dr. Dinesh Kumar Choudhury
Sri. Sai Prabhakar Balantrapu
Dr. Rajiv Gurung
Prof. R Prabhakara Rao
Sri. Sanjay Sahani
Dr. Olivier Dagnelie

For any queries related to FDP, contact

Dr. G Raghavender Raju

Head of the Department, Dean of Student Welfare

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Sri Sathya Sai Institute of Higher Learning
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FDP Organisers

Dr. Siva Kiran Guptha K
Contact: 8331915036

Sri. Sai Prabhakar Balantrapu
Contact: 7306287536

Frequently Asked Questions

CERTIFICATION



Certificates will be provided to all participants upon successful completion of the FDP.

TARGET AUDIENCE



Faculty members and Research Scholars from Economics, Management, Sociology, Education and other Social Sciences.

REGISTRATION DEADLINE



29th March, 2026

Mode of FDP



Online: Microsoft Teams
Offline: Multimedia Learning Centre, SSSIHL,
Prasanthi Nilayam Campus, Puttaparthi,
Andhra Pradesh, India.

Payment Details:

ACCOUNT NAME: Sri Sathya Sai Institute of Higher Learning
ACCOUNT NO.: 2351101005980
BANK & BRANCH: CANARA BANK, PUTTAPARTHI BRANCH
IFSC Code: CNRB0002351

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“The End of Education is Character”

Bhagawan Sri Sathya Sai Baba