

# MANAN LUTHRA

## PORTFOLIO

[manan.vercel.app](https://manan.vercel.app)

## CONTACT

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## ACTUARIAL EXAMS

Exam P	(SOA)
Exam FM	(SOA)
Exam MAS-I*	(CAS)

## SKILLS

Machine Learning  
Predictive Modeling and Analysis  
Data Visualization  
Interpersonal Communication  
Creative Direction  
Project Management

## TOOLS

C Programming  
Microsoft Excel

\*Awaiting results.

References available upon request.

## EXPERIENCE

### Actuarial Science Student

Casualty Actuarial Society | Society of Actuaries | July 2023 - Present

Wrote exams from CAS and SOA.

### Internship:

- Took part in the mentor-led eight week **CAS Summer Program 2024** and won the Property and Casualty Case Competition - Presented a discount structure to a board of executives based on claims data across various hazards.

### Projects:

- *"A Practical and Theoretical Guide to SHAP for Actuaries: Implementing any model"* - "This project focuses on making machine learning (ML) models transparent and interpretable, specifically using SHAP (SHapley Additive exPlanation) analysis."
- *"Decoding the Black Box: An Analysis of Interpretable Machine Learning Methods for Claims Frequency Prediction"* - This project explores tools to explain black-box ML models, like boosted trees and neural networks, using real car insurance claim data for clearer predictions.

### Engagements & Interactions:

- Frank Chang, President at CAS on *"The future of Actuarial Data Science"*.
- Andy Peterson, MD at SOA on *"Research activities led by SOA"*.
- Kendra Felisky, FCAS & Ronald Kozlowski, FCAS on *"Actuarial Career Pathways"*.
- **Global Conference of Actuaries** as part of our University visit.
- **Actuarial Seminar at Swiss Re Global** on Actuaries Day 2024

## EDUCATION

### Sri Sathya Sai Institute of Higher Learning

Masters of Science in Mathematics w/ specialization in Actuarial Science | 2023 - 2025

### Sri Sathya Sai Higher Secondary School

Mathematics, Commerce, Accountancy and Economics (93%) | 2018-2020

## LEADERSHIP & ACTIVITIES

### Institute Vedam Club, Public Speaking, Dance and Dramatics Group

President, Dance group coordinator | Prashanti Nilayam | 2024-2025

President of Vedam Club, organizing spiritual activities and teaching Vedam. Actively contribute to college dance and drama, including choreography, acting, and scriptwriting. Engaged in public speaking, mentoring peers, and delivering talks in college community.

### Sri Sathya Sai Institute of Higher Learning

Institute Cultural Captain | Prashanti Nilayam | 2022-23, 2024-2025

Leading college cultural activities as Cultural Captain, orchestrating competitions and events enhancing campus life and student participation.

### Hostel Dispensary

Student Head | Prashanti Nilayam | 2024-2025

Assisted in the hostel dispensary, managing health-related tasks and providing support to students for their medical needs.

## AWARDS

*Winner of Property and Casualty Case Competition conducted by CAS as part of Mentor-led Summer Program*

*Won 2nd Place in English Elocution, 3rd Place in Hindi Elocution held in college.*

*Runners Up in Lawn Tennis tournament of college.*