

CONTACT

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EXPERIENCE

NSDC MEC

Web Sub-lead | April 2025–Present

- Developing and Maintaining official NSDC MEC websites along with building webpages for events associated with the organisation.

Executive | October 2024–April 2025

- Assisted NSDC in collaborating, managing and brainstorming events, contests and more.

EDUCATION

Govt. Model Engineering College | 2024–2028

Bachelor of Technology in Computer Science & Business Systems

Bhavan’s Vidya Mandir, Girinagar

High School Diploma

PROJECTS

EGARCH–JDM Based Portfolio Optimizer (MVO) – [\[LINK\]](#)

Developed and implemented a portfolio optimization framework integrating advanced volatility and jump–diffusion models. Engineered a custom C++ implementation of the EGARCH model using Conjugate Gradient, demonstrating a thorough command of asymmetric volatility dynamics and mathematical principles. Applied the Merton Jump Diffusion Model (JDM) and Mean–Variance Optimization to generate risk–adjusted asset allocations.

Discord Bot for Classroom Coordination – [\[LINK\]](#)

Developed a lightweight and efficient Discord bot for my private class server during the COVID–19 lockdown period (2021–2022) designed to assist with classroom coordination and engagement.

GARCH(1,1) Volatility Estimation with Gradient Ascent – [\[LINK\]](#)

Developed and implemented a custom C++ GARCH(1,1) model for financial volatility estimation, utilizing Maximum Likelihood Estimation and Gradient Ascent optimization, reflecting a robust understanding of financial time series modeling and numerical methods

SKILLS

Python

JavaScript

C Programming

C++

Java

NumPy

GSAP

TensorFlow

MySQL

Bash