

# Steve Sojan

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## FOSSEE - IIT BOMBAY | SWE INTERN

Feb 2025 – Jun 2025 | Internship Work Report

- Selected for an official internship with the FOSSEE team at IIT Bombay to work on the Osdag Project after successfully completing a rigorous initial screening task.
- Developed a Tex manager with a robust Git workflow, utilizing Git Submodules to efficiently handle package updates and maintain project consistency.
- Packaged Osdag's Tex Environment into an independent texmf tree structure, which eliminated the conventional step of a Tex distribution installation and simplified user setup.
- Created a comprehensive LaTeX testing suite using the Arrange, Act, and Assert pattern to validate dependencies and ensure the integrity of the report generation system.

## OSDAG | PYTHON DEVELOPER - OPEN SOURCE CONTRIBUTOR

Dec 2024 – Feb 2025

- Created a fully fledged installer for the open-source software Osdag, developed by the FOSSEE Osdag Team at IIT Bombay.
- Since Osdag was priorly installed as a conda package, simplified user setup by writing installation scripts which could seamlessly install all dependencies without manual intervention.

## PROJECTS & HACKATHONS

### ZELESTRA X AWS ML ASCEND CHALLENGE

Jun 2025 – Jun 2025 | Results Here - Ranked 61 out of 700

- Developed a 8 model stacked regression ensemble capable of predicting efficiency in solar panels with an accuracy of 89.89455
- Designed a complete pipeline capable of data preprocessing, feature engineering, and an 80:10:10 train-test-validation split along with cross validation, to train and validate the stacked ensemble with a Ridge Regression meta-learner.

## WORKHORSE AI | AGRO FINANCIAL ADVISOR

Jul 2025 – Jul 2025 | WorkHorse AI GitLab Repository | Video Link

- Engineered a local RAG+LLM pipeline by integrating a 4-bit quantized Mistral-7B model through llama.cpp with a ChromaDB vector store, all-MiniLM-L12-v2 embedding model and LlamaIndex, enabling efficient, domain-specific multi-turn conversations even on low-end CPU hardware.

## HEIMDALL | PRICE TREND VISUALIZER + PREDICTOR USING LSTM

Jun 2025 – Present | Heimdall GitHub Repository

- Combines a multimodal ensemble of a Vision Transformer (ViT) trained on labeled technical charts (support, resistance, breakout levels) with an LSTM trained on historical OHLCV data, leveraging matplotlib, mplfinance, and TA-Lib for candlestick pattern recognition.

## THE GOODCOACHES INITIATIVE | FOUNDER

Dec 2023 – Jul 2025 | thegoodcoaches.org

- Founded The GoodCoaches Initiative, that connects volunteering coaches and partner academies with underprivileged children.

## EDUCATION

### VELLORE INSTITUTE OF TECHNOLOGY

BTECH CS WITH MINOR IN AI & ML

Expected Aug 2026 | Bhopal, India

Current CGPA: 8.58 / 10.0

### MOUNT ST. MARY'S SCHOOL

AISSCE - SCIENCES - CLASS 12

July 2021 | Delhi, India

Percentage: 93 %

### MOUNT ST. MARY'S SCHOOL

AISSE - CLASS 10

July 2019 | Delhi, India

Percentage: 93.1 %

## LINKS

Github: [stevesojan](#) GitLab: [stevesojan9](#)

LinkedIn: [stevesojan](#)

## SKILLS

### TECH STACK

Python • PyTorch

Tensorflow and Keras • Matlab

C/C++ • Tableau • Java

Git/Github • Linux

Tex & LaTeX • Artificial Intelligence

Machine Learning

## EXTRA CURRICULAR

### SPORTS & LEADERSHIP

- Captain - VIT College Football Team, AARAMBH Sports Fest, 2022 (Champions)
- Captain - VIT College Football Team, AdvITYa Sports Fest, 2023 (Runners Up)
- Academy Player for Delhi Football Club (2023), competed against top football clubs of Delhi.
- Best Athlete Award (2019), Senior Men's Category

### SOCIETIES & CLUBS

- Music - Certified by Trinity College London in Electronic Keyboard (Grade 1)
- The Matrix Clan (2020): As General Secretary, organized events for Matrix Ecomm-Symposium, an inter-school competition hosted by MSM in Delhi.
- AI Club, VIT Bhopal (2022): Part of the AI-based events organized by the AI Club.