

# Aditya Godse

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## EDUCATION

### AISSMS Institute of Information Technology

Expected graduation June 2026

*Bachelor of Technology in Artificial Intelligence and Data Science*

*Current CGPA: 7.72/10*

- Minor Course: Instrumentation Engineering

## SKILLS

**Languages:** Python, Javascript, Typescript, Bash, Perl, Go

**Tools:** GitHub Actions, CI/CD pipelines, Prompt Engineering, Docker, scikit-learn, TensorFlow, PyTorch, Next.JS

## EXPERIENCE

### Webmaster, IOIT ACM Student Chapter | *Management, SEO, DevOps*

Sept. 2024 - Present

- Designed and developed the **IOIT TENET** website, reaching 15,000 users within just 3 weeks.
- Increased event registration by implementing custom forms and building visually engaging 3D animations using GSAP, Three.js, and WebGL.
- Moderated a **Web3 panel discussion** at TENET'24 before an audience of 200 students.

### Chief Technology Officer, Hosteze (Startup) | *AWS, System Design, GraphQL, Next.JS*

Jan. 2024 - Dec 2024

- Led the design, development, testing, and maintenance of the core product, ensuring seamless functionality while maintaining comprehensive technical documentation for the entire codebase.
- Built an internal CRM tool with an ETL data pipeline that analyzes over 500 housing listings weekly to improve customer outreach.

## OPEN SOURCE

### OpenSSL | *C, Perl, testing, bash*

- Implemented new -cipher CLI option in OpenSSL's req command enabling users to specify private key encryption algorithms, enhancing security flexibility beyond previous default 3DES encryption. ([PR: 25796](#))
- Updated default ciphers for req, cms and smime apps, and updated documentation for man pages and usage examples, following OpenSSL's strict coding and documentation standards. ([PR: 25839](#))

## PROJECTS

### [Autonomous Rocket Landing Simulator via Reinforcement Learning](#) | *MLOps, Mathematics, Physics*

- Developed a **Reinforcement Learning** simulation enabling an agent to autonomously learn optimal control strategies for vertical booster landing.
- Engineered a **custom physics engine** modeling thrust, gravity, rotation, air resistance, using **Verlet integration** and a UI built using typescript and websockets duplex communication.
- Designed a multi-component reward function specifically engineered to guide the agent towards a safe, fuel-efficient, upright, and centered landing.

### [Mermaid Mind \(Web/LLM\)](#) | *Prompt engineering, Gemini, Next.js, MongoDB, NextAuth, tRPC*

- Built a web application that converts natural language inputs into Mermaid diagrams using LLMs using **Gemini 2.5 Pro** model.
- Created sophisticated prompt chaining techniques to handle complex diagram requirements while maintaining output validity and reducing hallucination errors and extract key entities to generate valid Mermaid syntax.

### [Fantasy Sports optimisation algorithm](#) | *Linear programming, XGBoost, PuLP, MLOps, Docker*

- Engineered an **AI-driven optimization model** using XGBoost and linear programming (PuLP) to automate fantasy team selection, leveraging extensive research on player stats and game dynamics.
- Built a **multi-constraint algorithm** balancing budget, player roles, and recent form, achieving 32% higher accuracy than traditional rule-based systems.
- Led the team of 4 people for end-to-end development of **web scraping ESPN data**, preprocessing of data, Dockerising the application and deploying MLOps pipelines for scalable retraining.

## OTHER ACHIEVEMENTS

- Earned the Leetcode Knight badge, ranking among the **top 5% globally**
- **Top 15%** in Kaggle CIBMTR - Equity in post-HCT Survival Predictions competition (Rank 491/3278)
- Title Holder for Asia's Largest Painting on Recycled Paper Canvas. ([Link here](#)) (Aug. 2021)
- 2-time National Level Rope Skipping Gold Medalist (Double unders & Spot jump) (2016 - 2017)