

# Aditya Sasidhar

New Delhi | +91 74285 64847 | [telikicherlaadityasasidhar@gmail.com](mailto:telikicherlaadityasasidhar@gmail.com)  
[LinkedIn](#) | [GitHub](#)

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## EDUCATION

- **Vellore Institute of Technology** 2023–Present
    - Bachelor of Technology in Computer Science (specialization in Artificial Intelligence and Machine Learning)
    - Current GPA: 8.07/10
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## EXPERIENCE

- **Soven Developer – AI Intern** July 2025 – Present
    - Architecting and developing end-to-end autonomous AI agents using Llm's to automate complex workflows and processes.
    - Engineering full-stack Generative AI applications, building scalable REST APIs with Python's Flask and integrating them with dynamic front-end interfaces.
    - Implementing advanced Retrieval-Augmented Generation pipelines to ground models with proprietary data, significantly improving response accuracy and abilities.
  - **The Red Users – Cybersecurity Intern** Feb 2025 – Mar 2025
    - Implemented network and web security measures, identified SAP vulnerabilities, and analyzed traffic with Wireshark to detect and mitigate threats, learned about potential threats and gained valuable insights.
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## PROJECTS

- **SafeSurf Junior – MP Police Cyber Safety Awareness Hackathon (3rd Place)** 2024 – 2025
    - Developed an AI based browser extension to filter harmful content for children, reducing exposure by ~90%, and implemented an automated alert portal to notify law enforcement of potential legal violations.
  - **TrojaNix - IIT Madras Malware Analysis Hackathon (Finalist)** 2023 – 2024
    - Trained ML and DL models for malware classification, achieving ~98% detection accuracy.
    - Analyzed large malware datasets, refining features for improved precision and employing methods for data enrichment.
  - **GenAI based dynamic Game env generator** May 2025 - May 2025
    - Associated with Vellore Institute of Technology.
    - An interactive game built with Python and Pygame that lets users modify maps using natural language prompts, powered by LLMs via the Groq API (Meta Llama 4 Maverick).
    - Key features include real-time terrain transformation, procedural map generation, and a built-in chatbox for user-AI interaction. This project demonstrates the integration of generative AI into game development workflows.
  - **Gemini based Cybersecurity Agent** Vellore Institute of Technology
    - Developed an autonomous cybersecurity agent using Google's Gemini LLM to execute Linux commands, perform pentesting, and run security diagnostics—all through natural language input.
    - Integrated GenAI for multi-turn reasoning with system-aware memory and robust error handling.
    - Used Python's `subprocess` and `platform` libraries for secure terminal interfacing, wrapped in a modular, prompt-engineered framework with Git-based version control.
  - **Efficient Fashion MNIST Classification with CNN Models**
    - Implemented and compared CNN architectures for classifying fashion items from the Fashion MNIST dataset, demonstrating building, training, and evaluating models.
    - Includes basic and improved CNN models (using SeparableConv2D), with detailed visualizations of confusion matrices, classification reports, and accuracy/loss curves.
  - **International Robotics Competition (Group Leader)** 2016 – 2018
    - Led a five-member team to design and build competitive robotics models, placing in the top 10 out of 150+ teams.
    - Coordinated tasks and timelines, ensuring on-time project completion for international events.
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## CORE SKILLS

- **Programming Languages:** Python, C, C++, Java, HTML, CSS, Javascript, MATLAB
- **Machine Learning & Data Science:** Scikit-learn, Logistic Regression, SVM, Random Forest, Gradient Boosting, XGBoost, LightGBM, K-Means, DBSCAN, PCA, t-SNE, Decision Trees, Naïve Bayes, KNN, Lasso, Ridge, SVR, Hyperparameter Tuning, Cross-Validation, Model Evaluation, Feature Engineering, Dimensionality Reduction, Data Engineering
- **Deep Learning & Generative AI:** TensorFlow, Keras, Pytorch, Transformers, Hugging Face, LSTMs, GRUs, CNNs, Diffusion Models, BERT, GPT, Stable Diffusion, LoRA, Attention Mechanisms, Transfer Learning, Model Fine-Tuning, Tokenization, Prompt Engineering, Generative AI, Gemini API, Large Language Models (LLM), Large Language Model Operations (LLMOps)
- **Data Analysis & Visualization:** NumPy, Pandas, Matplotlib, Seaborn, SciPy, Plotly
- **Cybersecurity:** hashlib, pefile, Wireshark, Basic Pen-testing, Computer Networks, Debian