

Aditya Raj

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SKILLS

- Languages:** C, C++, Python, JavaScript, Typescript, Java, HTML and CSS
- Frameworks:** NodeJS, React, Tailwind, Next.js, Express.js, Tensorflow, Langgraph, Pytorch
- Tools/Platforms:** MySQL, MongoDB, Postgress, VSCode, Git
- Soft Skills:** Problem-Solving, Team Player, Project Management, Adaptability

PROJECTS

Smart Hyperparameter Tuning with Optimization | [GitHub](#)

Nov 2025

- Automated hyperparameter tuning for machine learning models using advanced optimization frameworks like Hyperopt and Bayesian Optimization.
- Developed pipelines to integrate search algorithms with scikit-learn estimators for efficient model selection and validation.
- Tech:** Python, PyGame, Deep-Q-Learning, PyTorch

BlockFace | [Github](#)

May 2025

- Designed and developed an AI-powered web application that generates unique Minecraft skins using advanced deep learning, including self-attention and adaptive residual blocks.
- Built a robust image generation pipeline leveraging adversarial training and feature recalibration techniques to create high-quality, original 64x64 Minecraft skin textures.
- Tech:** TypeScript, React, Next.js, AI Image Generation, Web Development

TRAINING

Summer Training Program

June 2025

AI-Powered NLP – AlgoTutor

- Completed hands-on training focused on agentic AI, real-time communication systems, and retrieval-augmented document analysis
- Learned to build intelligent decision-making pipelines using Python, LangChain, LangGraph, LiveKit, and RAG-based workflows.
- Developed practical projects including a game-buying assistant (price comparison, intent analysis) and a resume-analysis system (chunking, vector search, contextual evaluation)
- Tech:** Python, LangChain, LangGraph, LiveKit, Chainlit, RAG, Embeddings, Vector DBs

CERTIFICATES

- AI-Powered NLP | AlgoTutor June 2025
- Microsoft AI Applied Skills | Microsoft Azure Aug 2024
- AI For India 2.0 | GUVI Sept 2023

ACHIEVEMENTS

- Secured Top 20 Rank:** January 2024
Among 100+ participants in Cyber Security Hack-quest

EDUCATION

- Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.5 Since August 2023
- Saint Joseph's School** Kahalgaon, Bihar
Intermediate; Percentage: 67% April 2021 – March 2023
- Saint Joseph's School** Kahalgaon, Bihar
Matrassiculation; Percentage: 86% April 2020 - March 2021