

# TANMOY SAHA

## AI / ML ENGINEER & GENAI SPECIALIST

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## PROFESSIONAL SUMMARY

Highly motivated and solution-driven AI / ML Engineer specializing in Generative AI, Agentic workflows, and predictive systems. Proficient in designing, evaluating, and deploying machine learning architectures, with core strengths in Python and data structures. Experienced in turning complex deep learning models into production-ready software solutions with responsive, optimized user interfaces.

## TECHNICAL SKILLS

|                              |                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Machine Learning:</b>     | Supervised/Unsupervised Learning, Regression, Classification, Model Evaluation, Neural Networks   |
| <b>Generative AI:</b>        | Agentic AI Frameworks, Large Language Models (LLMs), Prompt Engineering, RAG Architectures        |
| <b>Languages &amp; Core:</b> | Python, C, C++, Data Structures & Algorithms (DSA)                                                |
| <b>AI Engineering Tools:</b> | Computer Vision (Video Processing workflows), Audio-to-Text Pipeline Engineering, App Prototyping |

## PROJECTS & EXPERIENCE

### Independent AI/ML Developer & Engineer

2025 – Present

#### AI Clip Maker (Long-to-Short Video Pipeline)

- Engineered backend audio and visual heuristics to segment long-form media using multi-modal AI intelligence.
- Deployed localized speech-to-text sequence models to construct perfectly timed dynamic transcription pipelines.
- Optimized frame-cropping transformations to parse and re-adjust geometric spatial dimensions matching mobile aspect ratios.

#### ViralBoost AI (Content Optimization System)

- Built an analytical backend engine parsing algorithmic distributions to optimize metadata structures and keyword density features.
- Implemented autonomous agent execution patterns leveraging specialized LLMs to output real-time actionable feedback loops.
- Structured programmatic automation tasks minimizing processing time for multi-source search query alignment.

## EDUCATION

### Siliguri Institute of Technology

Bachelor of Technology (B.Tech) in Artificial Intelligence & Machine Learning (AIML)

### Dinhata Soni Devi Jain High School

Higher Secondary Education (Class 11-12)

### Gopal Nagar MSS High School

Secondary Education (Class 1-10)