

BAPPADITYA KUILYA

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TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C, SQL | **AI/ML:** LLM APIs, Prompt Engineering, TensorFlow, Neural Networks

Tools & Technologies: Git, Docker, Streamlit, Chrome APIs, React, Node.js, Linux/WSL | **Core CS:** DSA, OOP, System Design

TECHNICAL PROJECTS

Root-X – AI-Powered Failure Analysis System | Python, Git, LLM APIs Jan 2026 – Apr 2026

- Built AI system to trace production failures to specific Git commits, reducing root-cause identification time by 65% through automated commit analysis
- Achieved 92% accuracy using custom Weighted Heuristic Engine scoring commits by temporal proximity, file patterns, and error signatures
- Integrated LLM APIs for intelligent failure reasoning with natural language explanations, processing 1000+ commit repositories in under 2 minutes

AI Prompt & Token Optimizer (Chrome Extension) | JavaScript, Chrome APIs Dec 2025 – Mar 2026

- Developed browser extension optimizing LLM prompts, reducing token consumption by 35% and improving response relevance by 45% for GPT/Claude users
- Implemented "Token-Slasher" algorithm dynamically removing redundant context while preserving critical information using regex and linguistic analysis
- Architected multilingual prompt restructuring logic supporting 5+ languages with context-aware formatting for improved output quality

TESSAI – Personal AI Assistant | Python, LLM APIs, Streamlit Dec 2024 – Jun 2025

- Built real-time AI assistant with <2s response time using streaming LLM APIs, featuring voice interaction with speech-to-text and text-to-speech integration
- Implemented system-level automation including file operations, application launching, and command execution for practical daily-use scenarios

EDUCATION

Bachelor of Technology in Computer Science Engineering | CGPA: 8.11/10 Jul 2024 – Present

University of Engineering & Management, Kolkata | *Coursework:* Data Structures, Algorithms, OOP, DBMS, Operating Systems

ACHIEVEMENTS

- Hackathon Winner (1x):** Won 1st place demonstrating rapid prototyping and team collaboration under time constraints
- Problem Solving:** Solved 60+ LeetCode problems on DSA, dynamic programming, and optimization; maintaining 8.11 CGPA in CSE
- Active Learner:** Regular participant in tech bootcamps, hackathons, and quizzing; strong interest in AI systems and scalable products