

ANIKET CHOWDHURY

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Summary

Innovative professional in AI and automation with expertise in deep learning and data analysis. Led workshops that foster collaboration and inspire creativity. Skilled in analyzing market trends to identify opportunities and drive product development. Contributed to business growth through impactful solutions and effective problem-solving in collaborative environments.

Skills

- Deep Learning
- Computer Vision
- NLP
- Neural Networks
- Generative AI
- Transfer Learning
- Model Optimization
- Data Analysis
- RAG Pipelines
- LangChain
- Llamaindex
- Google Gemini API
- LLAMA 3
- Ollama
- Custom GPTs
- Vector Databases
- TensorFlow
- PyTorch
- OpenCV
- FastAPI
- React
- Next.js
- Node.js
- Tailwind CSS
- Flask
- Scikit-learn
- MongoDB
- PostgreSQL
- MySQL
- Neo4j
- Chroma
- Firebase
- Docker
- Git
- Tree-sitter
- Whisper STT
- WebSockets
- Monaco Editor
- Multi-Agent Systems
- Network Security
- AWS Cloud
- Scapy
- Artificial Intelligence
- Machine Learning
- Data Analysis
- Programming Languages
- Critical Thinking
- Problem Solving
- Team Collaboration

Education

B.Tech: CS (AI & ML)

Adamas University

GPA: Current CGPA 7.8 SGPA (Sem 5) 8.77

Expected in 01/2027

End To End Projects

- **AI-Based Intrusion Detection System for IoT Networks**, Built a real-time IDS using Random Forest (99.97% accuracy) with Scapy for live packet capture, automated IP blocking via iptables/netsh, and a Flask dashboard. Trained on a custom 1.8M-record dataset generated from a VirtualBox testbed. Detects SYN/ICMP/UDP/HTTP floods, port scans, and null scans in <1 second.
- **CodeAbyss — AI Cloud IDE**, Built an AI-powered browser IDE with autonomous coding agent capabilities inspired by Cursor/Replit Agent. Implemented live code editor, terminal, AI chat, real-time preview, and multi-language execution support. Integrated Gemini/OpenRouter/Ollama APIs with Next.js, Node.js, WebSockets, Monaco Editor, and TailwindCSS.
Live: codeabyss.vercel.app | GitHub: github.com/AbysalCoder/CodeAbyss_AI_IDE | Backend: novaforge-api-lf6u.onrender.com
- **MedMate - AI Healthcare Assistant**, Conversational copilot with symptom triage, skin & lab analysis, smart referrals, and Gemini 1.5 Flash integration.
- **HydroScan - Sonar Aquatic Drone**, Autonomous sonar mapping boat for construction & fisheries using Raspberry Pi and live navigation.
- **Location-Verified Attendance System**, GPS + Haversine geofencing with Firebase, production-ready admin workflows, and mobile-first UI.
- **Face Recognition System**, Real-time OpenCV interface with futuristic UI for secure access control and authentication.
- **BioSortX Landing Page**, Pitch-ready site detailing problem context, solution architecture, and impact metrics.
- **Railway Vendor Portal (v1)**, Secure onboarding & session flows for vendors managing track fitting data.
- **Phoenix AI Assistant UI**, Glassmorphism dashboard with live system stats, weather, and AI persona interactions.
- **Live Waste Classifier (YOLOv8)**, 30 FPS CV pipeline with custom YOLOv8 model achieving 95%+ accurate waste categorization.
- **Codebase Archaeologist**, Legacy code intelligence using FastAPI, React, tree-sitter, Neo4j, Chroma, LangChain & LlamaIndex.
- **SmartCane – Sugarcane Health Detection**, Custom deep-learning pipeline with stability locking & frame smoothing for reliable crop health assessments.
- **Chatbot cum Voice Assistant**, Offline LLAMA 3 + Ollama assistant with Whisper STT, web browsing, and contextual memory.
- **Word Ladder Visualizer (A*)**, Interactive Python tool showcasing heuristic-driven transformations via A* search.
- **Anime Premiere POP!**, Responsive showcase site with smooth navigation, curated content, and modern UI patterns.

- **Arduino RC Car & Line Follower**, Bluetooth/Autonomous dual-mode vehicle built for District Science Centre robotics workshop.
- **Sensor Circuit Projects**, Suite of proximity, ultrasonic, and automation circuits using Arduino, ESP & Raspberry Pi.

Internship

AI/ML Intern

Atos

- Contributed to enterprise AI and automation solutions focused on multi-agent systems, CloudOps, and intelligent workflow orchestration.
- Built and managed AI agents for PIR review, CMDB comparison/report generation, and automated network fault analysis.
- Worked on OpenClaw-based agent ecosystems, reusable agent template libraries, and orchestration of 10+ agents to automate and optimize L1/L2 operational tasks.

Experience

Hackathon Innovator

01/2022 to Current

National & Inter-College

- Engaged in 10+ national and inter-college hackathons focusing on AI, IoT, and automation.
- Developed innovative program proposals for student engagement and collaboration.
- Facilitated brainstorming sessions to generate creative ideas among diverse groups.
- Researched emerging trends in education to recommend new initiatives.

Workshop Conductor

Adamas Robotics Club

- Conducted hands-on sessions on slicing, printer operations, and material science to enhance participant understanding and skills.
- Operated robotic systems during club demonstrations and competitions.
- Collaborated with team members to design and build innovative robotics projects.
- Assisted in programming robots using industry-standard software tools.

Workshop Leader

Purulia Science Centre

- Facilitated hands-on workshops for participants to build Bluetooth RC cars using Arduino and HC-05 modules, enhancing technical skills and teamwork.
- Designed and facilitated engaging science workshops for diverse audiences.
- Collaborated with educators to create interactive learning materials and activities.
- Organized workshop schedules and managed participant registrations efficiently.

Happithon Winner

Rekhi Happithon

- Achieved 3rd prize for developing a Happibooster using NLP and a reinforcement learning model.
- Operated winding machines to produce high-quality coils.
- Inspected materials for quality before production runs.
- Collaborated with team members to ensure efficient workflow.

Certifications

AWS Academy-Generative AI Foundations, Completed foundational course covering generative AI concepts, applications, and AWS services for AI/ML.

Databricks Generative AI Fundamentals, Core principles of generative AI development using Databricks platform and MLflow.

GUVI (HCL) - Data Science: MAANG Professional, Industry-focused data science program with MAANG companies' interview preparation and projects., 05/25

AWS Academy Lab Project - Cloud Web Application Builder, Practical experience developing web applications on AWS cloud with serverless architecture and deployment.

AWS Academy — Machine Learning Foundations, Comprehensive introduction to machine learning concepts, algorithms, and practical implementation on AWS.

AWS Academy — Machine Learning for NLP, Specialized certification in natural language processing techniques and AWS ML services for text analysis.

Firstbitsolutions Professional Certifications, Professional development certification covering software engineering best practices and methodologies.

AWS Academy Lab Project — Cloud Data Pipeline Builder, Hands-on project building scalable data pipelines using AWS services like Glue, Lambda, and S3.

AWS Academy Lab Project — Microservices & CI/CD Pipeline Builder, Implementation of microservices architecture with continuous integration and deployment pipelines on AWS.

Generative AI Mastermind — Outskill, Advanced training in generative AI models, prompt engineering, and real-world applications.

DGCA Licensed Drone Pilot, Official certification for commercial drone operations and aviation regulations compliance.

Languages

- English, Fluent
- Bengali, Native
- Hindi, Fluent
- Japanese, JLPT N5

Websites, Portfolios, Profiles

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