

KAUSHIKEE KARMAKAR

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EDUCATION

Asansol Engineering College (AEC)

Aug 2024 – Mar 2028

Bachelor of Computer Applications (BCA)

Year 1 CGPA: 9.48 Year 2 CGPA: 9.09

SGPA: 1st Sem 9.41 — 2nd Sem 9.55 — 3rd Sem 9.29 — 4th Sem 8.89

PROJECTS

CreditSense AI: Explainable Credit-Risk Decision Support

2026

scikit-learn, Flask, Render — SparkIIT capstone 2

[GitHub] [Live]

- Predicted 2-year serious delinquency from 150,000 real borrowers; compared Logistic Regression, Random Forest and Gradient Boosting with 5-fold CV and reached **0.868 ROC-AUC** on 30,000 held-out borrowers.
- Converted risk scores into a cost-based approve/review/decline rule (37% lower expected cost than the best no-model policy under an assumed 5:1 cost ratio) and ran an age-group fairness audit; deployed as a Flask app.

Document Classification AI

2026

scikit-learn, TF-IDF, Streamlit — SparkIIT capstone 1

[GitHub] [Live]

- Built an NLP classifier on 20 Newsgroups (6 topics, 5,668 documents): a tuned Linear SVM on TF-IDF reached **91.1% accuracy** on 1,131 held-out documents, benchmarked against Naive Bayes, Logistic Regression and MiniLM embeddings.
- Deployed as a Streamlit app with confidence scores and the words driving each prediction.

Backyard Sweep: Mosquito Breeding-Site Detector

Oct 2026

YOLOv8, Ultralytics, Render

[GitHub] [Live]

- Trained YOLOv8n on VisText-Mosquito to detect 5 breeding-site types, reaching 0.926 mAP50 on the test split; field-tested on my own photos and documented where the model fails.

VAYUVEGA (PRISM-TC): Tropical Cyclone Intensity Classification

SIH 2026

PyTorch, timm, EfficientNet-B0

[GitHub] [Live]

- Evaluation Lead on a 5-member Smart India Hackathon team (SIH260070): ran the held-out evaluation (372 images, 5 imbalanced classes) with per-class metrics, confusion matrix and calibration checks.
- Recommended the original model (60.2% acc., 0.52 macro-F1) over the upgrade (55.9%, 0.41) after it regressed on the highest-risk failure mode.

TaskFlow: Task & Focus Workspace

2026

Flask, SQLite, JavaScript

[GitHub] [Live]

- Built a responsive task app with categories, priorities, due dates, a dashboard, a focus timer and a transparent rules-based planner.

Stuck Doctor

Oct 2026

Gemma, Ollama, Gradio

[GitHub] [Live]

- Built an app that helps people who keep putting off the doctor actually book an appointment (Hacktoberfest challenge).

TRAINING

SparkIIT AI Training & Internship Program

Jul 2026 batch, 3 months

Participant (powered by Wipro DICE ID)

Completed 2 capstone projects (above)

TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL, HTML, CSS, JavaScript

ML & AI: PyTorch, scikit-learn, Ultralytics YOLOv8, timm, NLP (TF-IDF, sentence-transformers), model evaluation, fairness auditing, Generative AI & prompting, Ollama

Frameworks & Tools: Flask, Streamlit, Gradio, SQLite, Git, GitHub, Render, Google Colab, Jupyter, Power BI

Other Skills: Data Structures & Algorithms (Python, Java), data analysis, public speaking, creative writing, sketching

CERTIFICATIONS

NASSCOM: Gen AI Tools (Aug 2026) — **SparkIIT:** Growth and Operation (Jun 2026) — **Intel AI for All:** AI Aware & AI Appreciate (Oct 2025)

Forage Job Simulations: Tata GenAI Data Analytics, Deloitte Data Analytics, Data Labeling (Jan 2026)

HP LIFE: Critical Thinking in the AI Era, AI for Business Professionals (Jan 2026) — **Simplilearn:** SQL Analytics & BI on Databricks (Jan 2026) — **Udemy:** Mastering Power BI (Nov 2025)

ACTIVITIES & ACHIEVEMENTS

- **Hacktoberfest 2026 Completionist:** published 2 project write-ups on DEV Community.
- **GDG on Campus AEC:** completed the 3-Day Web Bootcamp (Nov 2025), building a live game in HTML, CSS and JavaScript.
- **NDLI Club National Essay Writing Competition (IIT Kharagpur):** ranked 6th at my college (Aug 2025).
- **AEC Hardware Club, IHMMC-2026:** built and exhibited a Mining Gas Alarm System model (Mar 2026).
- **NSS volunteer, AEC:** Swachhata Hi Seva 2025 cleanliness drive; Lit Fest 2025 participant.