



KEERTI LATA CHOUDHURY

COMPUTER SCIENCE STUDENT

CONTACT

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GitHub

LinkedIn

PROFILE

3rd year CSE student building AI-driven systems with a focus on NLP, behavioural intelligence and real-time user interaction. Developed emotion-aware conversational AI integrating machine learning, LLMs and adaptive UI design.

Interested in advancing human-centered AI applications in mental wellness, security and intelligent system design.

TECHNICAL SKILLS

Programming: Python, C/C++, Java

Web: HTML, CSS, JavaScript, React

Libraries/Tools: Flask, FastAPI, Pandas, Matplotlib, Streamlit, Supabase, Git

AI/NLP: TF-IDF, Text Classification, Prompt Engineering, LLM Integration

Core Areas: Machine Learning, NLP, Real-Time Systems, Behavioral Analysis

RESEARCH INTERESTS

- Emotion-Aware AI & Human-Centered Systems
- Natural Language Processing (NLP)
- Human-Computer Interaction (HCI)
- Behavioural Data & Pattern Analysis
- AI for Mental Wellness Applications

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- Assamese (Basic)
- Maithili (Intermediate)

EDUCATION

Integrated Btech-Mtech in Computer Science & Engineering

Central University of Jharkhand, Ranchi
2023 - 2028 (Expected)

CGPA: 9.68

Higher Secondary Education

Kendriya Vidyalaya CRPF Amerigog, Guwahati
2023

Percentage: 91.4

Secondary Education

Noonmati Public School, Guwahati
2021

Percentage: 92.2

PROJECTS

TalkSpace-AI

Python, Streamlit, NLP, Supabase, LLM (OpenRouter)

Repository: [talkspace-ai](#)

- Built an emotion-aware conversational AI system using NLP-based emotion detection and adaptive dialogue generation
- Designed a real-time responsive UI that updates based on user emotional state
- Implemented multi-conversation persistence with Supabase for seamless chat history management
- Integrated LLM-based response generation with prompt engineering for natural, non-repetitive replies
- Developed a crisis detection system for handling high-risk user inputs

AI-Phish-Guard

Python, FastAPI, NLP, Pattern Analysis

Repository: [ai-phish-guard](#)

- Built a behaviour-driven phishing detection web app focused on identifying social-engineering patterns rather than relying only on blacklist matching
- Implemented multilingual risk analysis using Hindi keyword detection and Unicode script analysis to identify region-targeted scams
- Designed structural URL analysis including shortened links, urgency cues, and suspicious domain patterns
- Developed explainable risk scoring with human-readable reasoning instead of binary safe/danger labels
- Explored behavioural indicators commonly found in phishing messages such as urgency cues and emotional triggers



PROJECTS

Zero Trust Authentication Portal

Python, Flask, JavaScript, Behavioral Biometrics

Repository: [zero-trust-auth](#)

- Developed a prototype continuous authentication system based on Zero Trust Architecture monitoring behavioural signals throughout active sessions
- Implemented behavioural biometric analysis using keystroke timing, mouse movement, and touch/swipe interaction signals
- Designed behavioural baseline learning and anomaly detection pipeline for real-time session risk evaluation
- Built a dynamic risk classification system categorising sessions into Trusted, Monitoring, or Re-verification states
- Designed a behavioural baseline model to compare real-time interaction patterns with expected user behaviour

AI-Finance-Agent (Collaborative Project)

Python, Flask, Pandas, AI API

Repository: [ai-finance-agent](#)

- Contributed to development of an AI-powered finance assistant for analysing personal financial data and identifying spending patterns
- Implemented document processing (PDF, CSV, TXT) and integrated AI-generated financial insights with trend visualization using Python and Pandas
- Built a simple conversational interface to help users understand spending insights generated by the system



ACTIVITIES & CERTIFICATIONS

- Predictive Modelling with Applications: Supervised and Unsupervised Learning", IIT Hyderabad
- Hack Qubit 24 Hr Hackathon, RVSCET - Intelligent Income Tax Assistant
- Elite Certification in "Artificial Intelligence in Industrial and Management Engineering", IIT Kanpur
- Seminar on Cybersecurity in the age of AI & ML - Attendee
- Workshop on Data Analytics, IUCAA, IIT Kharagpur
- National Students' Space Challenge, IIT Kharagpur
- Computer Society of India - Member, 2024-2025