

# Abhisumat Kundu

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3<sup>rd</sup> year Computer Science undergraduate and ML Developer with projects across Machine Learning, Predictive Modelling, NLP, and Data Visualization. Skilled in Python, SQL, TensorFlow, Scikit-learn, and Pandas with expertise in model development, feature engineering, and data-driven decision-making. Experienced in building automation tools and Gen-AI products.

## EDUCATION

### MCKV Institute of Engineering

CGPA: 8.08 | August 2023 – June 2027

Bachelor of Technology in Computer Science & Engineering

Howrah, India

- Relevant Coursework - Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Machine Learning, Database Management System, Data Mining, Data Analysis & Visualization, Software Engineering

## SKILLS

**Programming Languages:** Python, MySQL, Java, Go, C#

**Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, Pytorch, TensorFlow/Keras, Django, Streamlit

**Tools and OS:** Next.js, Tableau, AWS, RedHat Linux

**Languages:** German (A2 certified), English (C2 certified), Bengali (Native), Hindi, Japanese (Elementary)

## PROFESSIONAL EXPERIENCE

### Game Development Intern ([Link](#))

May 2025 – July 2025

OGames Studio

Kumasi, Ghana (Remote)

- Developed core gameplay mechanics for a mobile First-Person Shooter using Godot Engine and GDScript, contributing to 15+ functional game features.
- Self-taught Godot Engine and GDScript from scratch within 1 month, transitioning from zero experience to delivering production-ready gameplay features.
- Collaborated with an international team across 3 time zones.

## ONGOING RESEARCH WORK

### Brain Tumour Detection using Deep Learning

- Supervisor: Dr. Subro S. Thakur, Prof. MCKVIE
- Developing a CNN-based model to classify MRI scans into tumour/non-tumour categories.
- Collaborating in a team of 5 members.

## PROJECTS

### Ez-Viz - ML Prediction & Visualization Tool | Python, Streamlit, Plotly, Scikit-learn, Pandas

[Link](#) [GitHub](#)

- Developed a no-code ML automation platform that streamlined data analysis from preprocessing to prediction.
- Integrated modular components for EDA, feature selection, model training, and evaluation, reducing manual effort and model selection time from hours to minutes.
- Earned 1<sup>st</sup> position in MLH's "Best Use of Streamlit" track at Diversion 2k25 for intuitive design and broad usability.
- Deployed with Streamlit: [ez-viz.streamlit.app](https://ez-viz.streamlit.app)

### Fine-tuned Cold Email Generator | Python, Langchain, Groq, Meta's LLaMA-3.1-70B, ChromaDB

[GitHub](#)

- Engineered an automated outreach tool using Generative AI to generate context-aware cold emails tailored to job listings scraped from company career pages.
- Combined LLaMA-3 with Langchain and vector database to match services with company needs, boosting response rates.
- Cut manual email drafting effort by at least 80%, enabling businesses to scale personalized outreach efficiently.

### PDF-based RAG System | Python, Langchain, ChromaDB, Streamlit

[Link](#) [GitHub](#)

- Designed a document question-answering system using Retrieval-Augmented Generation on custom PDF inputs.
- Implemented semantic search using embeddings and vector database to retrieve context-relevant chunks.
- Integrated LLM based response generation to produce accurate answers.
- Deployed as an interactive web application using Streamlit : [abhi-pdf-rag-chatbot.streamlit.app](https://abhi-pdf-rag-chatbot.streamlit.app)