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BTech in Artificial Intelligence

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## EDUCATION

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- **West Bengal Council of Higher Secondary Education** 2023  
*Physics, Chemistry and Mathematics* Percentage: 65.04
- **Alipurduar Government Engineering and Management College** 2027  
*BTech in Artificial Intelligence* CGPA: 7.06

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** English, Hindi, Bengali

**Programming Languages:** Python, C++

**Frameworks:** FastAPI, Flask, NumPy, Matplotlib, Pandas, Scikit-Learn, Streamlit, OpenAI, OpenCV

**Other Skills:** SQL, Machine Learning, HTML, CSS, Docker, Git, Linux

**Soft Skills:** Collaboration, Problem-solving, Communication, Time Management, Result-oriented, Hard Working, Team Player

## PROJECTS

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### • **Wireless Data Transfer (WDT)**

*Developed a secure, Flask-based wireless file transfer system with QR-code access and admin control.*

- Designed and developed a production-ready wireless file transfer system for local networks.
- Implemented general and secure file upload modes, including QR-code-based secure access.
- Built a Flask-based web interface for uploading, downloading, and managing files.
- Added time-based file expiry with automated background cleanup using multithreading.
- Implemented admin panel with authentication, session handling, and activity logging.
- Integrated detailed audit logging (CSV ledger) for uploads, downloads, and deletions.
- Designed for cross-device access (mobile, desktop) within a local Wi-Fi network.

### • **Retrieval-Augmented Generation (RAG) AI Assistant**

*Built a Retrieval-Augmented Generation (RAG)-based AI assistant that allows users to query documents intelligently.*

- Used Python, FastAPI, ChromaDB, LangChain, and OpenAI APIs to process and embed documents, store them in a vector database, and retrieve relevant context for grounding LLM responses.
- Performed document ingestion, text chunking, and embedding generation to ensure efficient semantic search and accurate retrieval of relevant information.
- Developed a retrieval pipeline with a RetrievalQA chain, combining semantic search results with OpenAI's LLM to generate precise and reliable answers.
- Deployed the solution with Docker and FastAPI endpoints for real-time querying (`/query`, `/query_with_sources`) and health checks, making the system scalable and production-ready.

## CERTIFICATES

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- **Certificate for Python for Data Science, AI and Development** from Coursera