

HIMANSHU DUTTA

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SUMMARY

AI-driven engineer with a foundation in **NLP**, **Generative AI**, and **transformer-based systems**, skilled in building **document QA systems**, **RAG pipelines**, and **Streamlit dashboards**. Rooted in Electronics & Communication with a systems thinking mindset, blending technical depth with business awareness. Passionate about ethical, user-focused AI and product strategy at the intersection of behavior, accessibility, and decision-making.

EDUCATION

B.Tech in Electronics and Communication
Engineering Indian Institute of Information
Technology (IIIT) Kottayam Aug 2023 – May 2027

SKILLS

Technical Skills: Python, Hugging Face Transformers, LangChain, RAG, ChromaDB, PyTorch, Streamlit, Scikit-learn, spaCy, TextRank, LDA, Pandas, Matplotlib

Soft Skills (Developing): Communication, Teamwork, Problem Solving, Adaptability, Time Management

Business & Management Skills (Learning): Product Thinking, Business Analysis, Strategic Mindset, Data-Driven Decision Making

CERTIFICATION

IBM Data Science Specialization – Coursera

[Credential Link](#)

PROJECTS

DocMind – AI-Powered Offline PDF Q&A

Local LLM-based PDF question answering using LLaMA 2, LangChain, and ChromaDB. Enabled offline semantic search and private document inference.

Tech: Python, LangChain, ChromaDB, Sentence Transformers, PyMuPDF, Streamlit, LLaMA 2

NewsGuard – Real-Time AI News Dashboard

Built NLP pipeline to scrape, summarize, and detect bias in news using NMF, TextRank, and sentiment analysis.

Tech: Python, Hugging Face, NLTK, spaCy, Streamlit, BeautifulSoup, Matplotlib, Plotly

TuneDNA – Deep Learning Music Classifier

Trained CNN on Mel Spectrograms for genre prediction; deployed via Streamlit with real-time audio upload interface.

Tech: TensorFlow, Librosa, NumPy, CNN, Streamlit

ACHIEVEMENTS

Codeforces: Active participant in algorithmic programming contests

Kaggle: Engaged in real-world machine learning challenges and data competitions

INTERESTS

Sanskrit & Linguistics: Exploring classical texts for NLP innovation

Yoga & Meditation: Cultivating focus, mental clarity, and balance

Flute Playing: Enhancing creativity, rhythm, and cognitive flexibility