

# 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