

# HARSH SHARMA

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## PROFESSIONAL SUMMARY

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Pre-final year AI & ML Engineering student with a strong passion for building intelligent systems that solve real-world problems. Hands-on experience developing LLM-based RAG applications, deep learning classifiers, and end-to-end ML pipelines. Aspiring Machine Learning Engineer driven by curiosity and a builder's mindset – from medical chatbots to brain tumour detection, I turn ideas into working models. Actively seeking opportunities to contribute, grow, and push the boundaries of applied AI.

## TECHNICAL SKILLS

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**Languages & Libraries:** Python, C, NumPy, Pandas, Scikit-learn, PyTorch, Matplotlib, Seaborn, Streamlit  
**Deep Learning:** LSTM, CNN, Embedding Layers, Tokenization, RAG, LLMs, Transfer Learning  
**Tools & Databases:** Git, GitHub, Jupyter Notebook, VS Code, MySQL, MongoDB

## EXPERIENCE

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### Zidio Development

08/2025 – 10/2025

#### Data Scientist Intern

- Developed an Image Captioning system leveraging Deep Learning (LSTM, Embedding layers, CNN features) to generate descriptive captions for images.
- Performed Exploratory Data Analysis (EDA) on image-text datasets to identify patterns, clean data, and optimize preprocessing pipelines.
- Implemented tokenization, sequence padding, and word embeddings for preparing captions for training neural networks.

## PROJECTS

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### Medical Chatbot – LLM-Based RAG System | *Python, LangChain, Pinecone, Streamlit*

- Built an end-to-end Retrieval-Augmented Generation (RAG) chatbot to provide accurate, context-aware information about medicines and drug interactions.
- Integrated Pinecone vector database for efficient semantic search and retrieval over a medical knowledge base of 10,000+ documents.
- Deployed interactive Streamlit interface allowing users to query medicine details, dosage, and side effects with source-cited LLM responses.

### Brain Tumour Classification | *Python, PyTorch, CNN, Transfer Learning, Streamlit*

- Designed and trained a CNN-based deep learning model to classify brain MRI scans into four categories: glioma, meningioma, pituitary tumour, and no tumour.
- Applied transfer learning using a pre-trained VGG16 architecture, achieving 95%+ classification accuracy on the test dataset.
- Built a Streamlit web application enabling users to upload MRI images and receive instant classification results with confidence scores.

### Sentiment Analysis of Movie Reviews | *Python, LSTM, Keras, NLP*

- Developed a deep learning model using LSTM architecture to predict movie review sentiment with 90% accuracy on a 50,000-review dataset.
- Applied text preprocessing techniques including tokenization, stopword removal, and sequence padding for optimal model performance.

## EDUCATION

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### GH Raisoni College of Engineering and Management

*Bachelor of Technology, Computer Science and Engineering (AI & ML)*

Pune, Maharashtra

2023 – 2027

### Sanjay Ghodawat Institute

*Higher Secondary*

Maharashtra

2023

## CERTIFICATIONS

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**Cloud Computing** – Infosys (July 2024)

**Generative AI** – IBM (November 2024)

**Introduction to Data Science** – Cisco (September 2025)