

# Harsh Shivhare – Portfolio Knowledge Base

---

## Personal Overview

I'm **Harsh Shivhare**, a highly motivated and curious B.Tech student specializing in **Artificial Intelligence, Machine Learning, and Data Science**, currently in my third year at **IIIT Bhopal**. My journey is driven by a passion for building impactful, real-world AI solutions, and I have had hands-on experience working with startups, developing full-stack AI systems, and solving industry-grade problems. I'm the winner of **Smart India Hackathon 2024** and have earned a prestigious **Executive Post Graduate Certification in Data Science and AI** from **IIT Roorkee**.

---

## Education

**Indian Institute of Information Technology, Bhopal**

**Degree:** B.Tech – Information Technology

**Duration:** Oct 2022 – Present

**CGPA:** 8.29

**Relevant Coursework:**

- Data Structures & Algorithms
  - Object Oriented Programming
  - Machine Learning
- 

## Professional Experience

### ♦ SafeGuard Reality – SDE Intern (Oct 2024 – Present)

- Developed a **LLaMA-based computer vision system** to extract structured key-value data from legal documents, improving processing speed by **3x** and reducing errors by **30%**.
- Built an **ETL pipeline using Python, SQL, and REST APIs** to integrate and manage global **sanctions list datasets**, ensuring robust **KYC compliance**.

- Enhanced data integrity and query efficiency using **relational database design** for financial risk assessment and compliance.


### AI Zira – Machine Learning Intern (Aug 2024 – Jan 2024)

- Delivered **10+ AI production tools**, including fine-tuned **LLMs for domain-specific outputs**, like **Academic Writing Assistant** and **Language Tutors**.
  - Built an AI-powered avatar-based chatbot with **TTS/STT systems** supporting 95%+ accuracy and real-time interaction, enhancing accessibility.
  - Automated the entire ML deployment pipeline using **Docker and GitHub Actions**, improving release cycles for staging and production environments.
- 

## Academic & Personal Projects

### Amazon Alexa Review – Sentiment Analysis –

<https://github.com/250519/-Amazon-Alexa-Review---Sentiment-Analysis>

- **Skills Used:** EDA, NLP, Neural Networks, Kaggle, Tokenizer
- Preprocessed thousands of unstructured reviews and built a neural model that achieved **94% accuracy** in sentiment classification.
- Performed in-depth exploratory data analysis to identify customer sentiments and trends for product feedback.
-  [GitHub](https://github.com/250519/-Amazon-Alexa-Review---Sentiment-Analysis)

### Conversational AI Chatbot (Enterprise-Ready RAG Bot)--


<https://github.com/250519/ChatBot>

- **Tech Stack:** RAG, LangChain, Pinecone, Mistral, Flask, HTML/CSS
- Built a **memory-aware intelligent chatbot** with retrieval capabilities, handling **1000+ weekly customer queries** to automate support.
- Leveraged **vector databases**, **custom prompt chaining**, and **session management** to ensure continuity and relevance in chats.


-  [GitHub](#)

### Email Tracking System – AI Mail Assistant –

<https://github.com/250519/Email-Tracking-Agent----Langgraph>

- **Stack:** LangGraph, LangChain, Ollama, IMAP, Streamlit
- Designed a personal assistant that **auto-categorizes incoming emails**, extracts job-related info, and tracks **100+ job applications**.
- Enabled **parallel email parsing**, real-time alerts, and smart job categorization using LangChain agents and a custom dashboard UI.
-  [GitHub](#)

### Customer Churn Prediction Model – <https://github.com/250519/Customer-Churn>

- **Tech Stack:** Pandas, NumPy, Keras, Scikit-learn, TensorFlow, Plotly
- Analyzed behavior patterns of 15,000+ customers and built **predictive neural models** that led to a **40% churn rate reduction**.
- Visualized insights using **Plotly dashboards** and incorporated advanced hyperparameter tuning for optimal performance.
-  [GitHub](#)

---

## Achievements & Awards

### Smart India Hackathon 2024 – Winner –


<https://www.linkedin.com/feed/update/urn:li:activity:7273671161182367744/>

- Organized by: **Ministry of Communication, Department of Posts**
- Developed an AI web platform called **Yojana Sahayak**, helping **1,00,000+ post offices** enhance scheme awareness and delivery.
- Applied **clustering for audience targeting**, **DNNs and LSTMs for predictions**, and **FastAPI for seamless backend integration**.

- Designed an end-to-end solution from **data ingestion to personalized communication using LLMs**.
  -  [LinkedIn](#)
- 

## Certifications

**Executive Post Graduate Certification in Data Science & AI –**  
<https://tih.iitr.ac.in/Certificate/intellipaat/IPTIH230586.jpg>

- Issued by: **IIT Roorkee** in collaboration with Intellipaat
  - Duration: 2023
  - Projects included:
    - Advanced ML modeling
    - Real-time analytics
    - Dashboarding with **Power BI**
    - Business intelligence projects with predictive analytics
  -  [Certificate](#)
- 

## Technical Proficiencies

- **Languages:** Python, C, C++, SQL
- **Libraries & Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn, Transformers, LangChain, LangGraph
- **APIs & Backend:** FastAPI, Flask, REST APIs
- **Databases:** MongoDB, PostgreSQL
- **Tools & Platforms:** Docker, Kubernetes, Git, VSCode, Jira, Power BI, Streamlit

- **Other Skills:** AWS, Speech-to-Text, Text-to-Speech, DevOps (CI/CD)
  - **Soft Skills:** Leadership, Communication, Team Management, Innovation
- 

## **Contact Information**

Warm regards,

**Harsh Shivhare**

Email: harshshivhare280@gmail.com

Phone: +91 7869154328

LinkedIn: <https://www.linkedin.com/in/harsh-shivhare-107032252/>

Github: <https://github.com/250519>

Kaggle : <https://www.kaggle.com/harshshivhare2505>

LeetCode: <https://leetcode.com/u/h2505/>