

Krishna Digarse

krishnadigarse2004@gmail.com | +91 8989407576

[LinkedIn](#) | [GitHub](#)

Summary

Computer Science student specializing in AI and ML, experienced in building OCR models, PDF chatbots, AI Chrome extensions, and full-stack apps with Spring Boot. Proficient in Python, Java, Spring Boot, React, and TensorFlow with strong problem-solving skills.

Projects

Handwritten Text Recognition using Optical Character Recognition Model

Tech Stack: TensorFlow, NLP, Python, IAM Dataset

- Built an OCR model with TensorFlow to recognize printed and handwritten text with ~92% accuracy.
- Utilized the **IAM dataset (over 1,500 writers and 13,000 lines of handwritten text)** for training.
- Incorporated NLP techniques to enhance post-recognition accuracy, reducing text errors by ~15%.
- Implemented preprocessing steps such as image normalization, binarization, and segmentation to improve data quality.

Local PDF Chatbot using Retrieval Augmented Generation Model

Tech Stack: TensorFlow, PyTorch, Gemma 2B (Local LLM), Python

- Built a Retrieval-Augmented Generation model to answer questions from PDFs with ~90% answer accuracy.
- Integrated document retrieval to fetch relevant sections and a generation module for context-aware answers.
- Used TensorFlow for implementing and fine-tuning the model, ensuring seamless integration of retrieval and generation components.
- Used Local LLM(Gemma 2B) for better output results.

AI Article Summarizer Chrome Extension

Tech Stack: React, Flask, Scrapy, Groq AI API, TailwindCSS

- Built a Chrome Extension using React and Flask to generate AI-based summaries of web articles in real time.
- Integrated Scrapy and Groq AI API to extract and summarize web content dynamically with multi-language support.
- Designed intuitive UI with options to copy, download, and customize summary length for enhanced user experience.
- Implemented backend with Flask and CORS, enabling secure communication between extension and AI summarization model

Voting App using Spring

Tech Stack: Spring Boot, Thymeleaf, Spring Security, Hibernate, MySQL, CSS

- Built a full-stack voting application where users can cast votes and admins can securely view detailed results using **Spring Security** for role-based access.
- Integrated **Hibernate ORM with MySQL** for data persistence and designed responsive **Thymeleaf templates** for a seamless user interface.

Skills

- Programming Languages - Python, Java, JavaScript, SQL, HTML, CSS
- Frameworks & Libraries - Spring Boot, Spring Data JPA, Spring Security, Flask, FastAPI, TailwindCSS, Tensorflow, PyTorch
- Databases – MySQL, MongoDB
- Tools & Technologies - Git, GitHub, Docker, AWS, Maven, Gradle
- Core Competencies - RESTful API Development, Microservices, Machine Learning, Artificial Intelligence, Full-Stack Web Development, Object Oriented Programming (OOP), Data Structures and Algorithms (DSA)
- Soft Skills - Teamwork, Decision Making, Critical-Thinking, Problem-Solving, Adaptability.

Education

Bachelors of Technology, School of Information Technology, RGPV | 7.27

Bhopal, MP, India

2026

- Major in Computer Science Engineering with specialization in Artificial Intelligence and Machine Learning.

Higher Secondary Education, Lala Kailashpat Singhania High School | 78.4%

Sausar, MP, India

2022

- Completed higher secondary education with a strong academic foundation in Physics, Chemistry, and Mathematics PCM with minors in Computer Science.

Certifications

- **Python Certification from Udemy:** Covered functions, OOP, file handling, web scraping and more.
- **Machine Learning A-Z from Udemy:** Trained ML models using regression, classification, clustering, and more.