

# Kartavya Badgujar

B.Tech

Computer Science and Engineering

Parul Institute of Engineering and Technology, Vadodara

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🐙 GitHub Profile

🌐 LinkedIn

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## PERSONAL PROFILE

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I am a B.Tech graduate specializing in Computer Science and Engineering with a strong grasp of data structures and algorithms. I possess proficient programming skills in C++ and Python. My career aspirations are focused on becoming a Python Developer, AI/ML Engineer, or Data Scientist. I am passionate about contributing to the development of advanced technological solutions and pushing the boundaries of innovation.

## EDUCATION

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- **Parul Institute of Engineering and Technology** 2024  
*B.Tech, Computer Science and Engineering* CGPA: 7.91
- **P.P.Savani Vidhyabhavan, Surat** 2020  
*GHSEB, Gujarat* Percentage: 69.23
- **I.G.Desai Vidhyalaya** 2018  
*GSEB, Gujarat* Percentage: 88.50

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** Python, C/C++, SQL, Java

**Frameworks and Libraries:** Keras, Tensorflow, PyTorch, OpenCV, Neural Networks scikit-learn, HuggingFace - Transformers, Streamlit, Llama-index, Ollama

**Tools:** Visual Studio Code, Git, PyCharm, Jupiter Notebooks

**Cloud platform:** AWS sagemaker

**Soft Skills:** Time Management, Teamwork, Solution explorer

**APIs:** OpenAI API, Hugging Face API

## PROJECTS

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- **Automatic Location Detection of Image using Deep Learning**  
*Model Developer*
  - This is my final year project and currently working as the core model developer in this project.
  - Developed a Streamlit app to detect the location of an Indian city in an uploaded image.
  - Trained a deep learning model on 10,500 images of 5 Indian cities with 63.6 per cent accuracy and achieved this accuracy using Transfer Learning on VGG16.
- **GitChat**  
*RAG Application*
  - Developed a Retrieval-Augmented Generation (RAG) application enabling natural language interactions with GitHub repositories, enhancing code querying and productivity.
  - Utilized Python 3.8+, Git, Streamlit, LlamaIndex, Ollama, and the Mistral-7B model to build and deploy the application, emphasizing intuitive code communication.
  - Implemented prompt engineering techniques to refine responses of the LLM (Large Language Model), optimizing interaction outcomes tailored to specific knowledge bases.
  - Deployed the application on an RTX 3050 GPU for accelerated performance, demonstrating adaptability to varying hardware specifications for efficient code querying experiences.
- **Multi PDF chatbot**  
*LLM and Embeddings*
  - Created Multi PDF chatBot in which user can chat with data of given one or multiple pdfs. implemented with Streamlit, PyPDF2, FAISS, HuggingFace Transformers, and Conversation History.
  - The project shows how Streamlit, PDF text extraction, advanced NLP libraries like langchain and sentence-transformers can be combined to create a conversational question-answering system over documents.  
Model used: Llama-2-7b

## CERTIFICATIONS

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- **Generative AI with Large Language Models**, Coursera
- **Advance Learning Algorithms**, Coursera
- **Supervised Machine Learning: Regression and Classification**, Coursera
- **Introduction to Data Science in Python**, Infosys Springboard