Kushagra Wadhwa

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[in] LinkedIn   🐙 GitHub   IITM Profile   k Kaggle

👤 Portfolio

SKILLS

<u>Languages and Frameworks:</u> Python - Data Analysis and Visualisation, Pandas, NumPy, Scikit-Learn Machine Learning, OpenCV, Flask, Shell Scripting, HTML5, CSS, JavaScript.

<u>Databases:</u> MySQL, PostgreSQL.

<u>Industry Knowledge</u>: LLMs, RAGs, Application Programming Interfaces (API), Computer Vision, Database Management System (DBMS), Artificial Intelligence, Business Data Management,

<u>Tools & Technologies</u>: Git and GitHub, Linux, Excel, Microsoft Office, Postman API

<u>Soft Skills</u>: Teamwork, Problem Solving, Adaptability

EXPERIENCE

Industry Collaboration Minor Project Intern
Prodigal AI| Internship
September 2024- (Ongoing)
(Remote)
- LLMs | RAG (Retrieval Augmented Generation) | Building a ***Knowledge-AI*** Agent

Data Scientist
Deutsche Telekom Digital Labs | Internship
June 2024 – August 2024 (3 months)
Gurugram, Haryana, India (On-site)
- Developed a robust codebase to parse HR policy documents, featuring efficient text parsing, structured table extraction, and image extraction. Experimented with various libraries to optimize these processes.
- Built a Streamlit PDF analysis dashboard to display document metrics such as page count, word count, corpus statistics, number of tables, images etc.
- Contributed to the creation of Q/A pairs from the parsed data using Hugging Face models and designed evaluation metrics for them.
- Attended an in-person AWS expert workshop and learnt to build a chatbot using an "Agent" on the AWS platform.

Python Developer
BDO in India | Internship
August 2023 – September 2023 (2 months)
Noida, Uttar Pradesh, India (On-site)
- Developed an automated Python script to resolve noisy coloured alpha-numeric CAPTCHAs
- Created a PDF extraction tool to automate data retrieval and arrangement in Excel for specific use case of the organisation.

EDUCATION

Bachelor's degree, Artificial Intelligence and Machine Learning

Guru Gobind Singh Indraprastha University •September 2025(Pursuing)

Bachelor of Science - BS, Data Science

Indian Institute of Technology, Madras (Pursuing)

PROJECTS

1. **OpenCV Captcha Resolver**
   An automated Python script to resolve noisy coloured alpha-numeric CAPTCHAs
   https://github.com/KushagraaWadhwa/Open-CV-Captcha-Solver

2. **No-LLM based PDF extractor tool**
   A robust codebase to parse documents, featuring efficient text parsing, structured table extraction, and image extraction from an unstructured document

3. **Recipe for Rating: Predicting Food Rating using ML | IITM BS**
   Created a model to predict food ratings based on ingredients and cooking methods
   Analysed patterns in the dataset using exploratory data analysis and built a robust predictive model.

4. **Ask your PDF**
   A Streamlit UI chatbot for querying custom PDF documents and retrieving precise answers from the specific document.
   https://github.com/KushagraaWadhwa/AskYourPDF

5. **SalesAssist AI**
   Creating a conversational framework that acts as an intermediary between a salesperson and a clerk, enabling the salesperson to answer customer queries in real time from LLM/RAG as per the requirements. It is a framework that supports real-time customer interactions by assisting sales teams with instant responses using LLM/RAG.

CERTIFICATIONS

- **Introduction to Generative AI**
  Google, 2024
  Badge

- **Foundation in Programming and Data Science**
  Indian Institute of Technology, Madras, 2022
  Certificate

- **Postman API Fundamental Student Expert**
  Postman, 2023
  Badge