# Damodar Bhawsar

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Dynamic and dedicated **Data Science Professional** carrying expertise In **Machine Learning, Deep Learning and Natural Language Processing and Generative AI** while generating ideas for new processes and their implementation

## A committed professional with experience in:

Data Science | Machine learning | Natural Language Processing | Deep Learning | Data Analysis | Classification/Regression | Clustering | Decision Tree | Random Forest | MYSQL |Agentic AI | GenAI

## SCHOLASTICS PORTFOLIO

**Prestige Institute of Engineering, Management and Research, RGPV, Indore, MP, India**     *CGPA – 7.65/10*
Bachelor of Technology (Computer Science & Engineering)     2021-2025

## TECHNICAL SKILLS

- **Programming Languages** : C, C++, Python
- **Machine Learning** : Regression (Linear, Logistic), Decision Trees, Random Forest, SVM, K-Means, KNN, XGBoost
- **Natural language Processing** : NLTK, Spacy, Text Summarization
- **Deep Learning** : ANN, CNN, RNN, LSTMs
- **Generative AI** : GANs, VAEs, Diffusion Models, Hugging Face, LangChain, OpenAI API, Prompt Engineering
- **Data Analysis & Visualization** : Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn
- **Databases** : MYSQL
- **Algorithmic Techniques** : Data Structure
- **Source Controls** : Gitlab, Github

## PROFILE SUMMARY

- Aspiring Data Scientist with hands-on experience in **machine learning, deep learning**, and data-driven automation. Proficient in Developing and deploying **end-to-end ML pipelines** using Python, **Scikit-learn, TensorFlow**, and **pyTorch**. Experienced in integrating **OCR, NLP**, and **LLM-based** systems for intelligent data extraction, automation, and insight generation. Successfully built a multi-agent email automation system and contributed to cutting-edge AI projects, including a **Voice Call Agent, Multi-Agent Communication Platform(MCP)** and ongoing **Agent-to-Agent Automation(A2A)** development. Passionate about applying **AI, predictive modeling,** and MLOps to create scalable, real-world solutions that drive business impact

## KEY PROJECTS

### HAND GESTURE DETECTION

- **Key Skills: Python, OpenCV, MediaPipe, CNN, Deep Learning**     **Project Link**
- Built a real-time gesture recognition system with **97% accuracy**, reducing misclassification by **20%** after hyperparameter tuning.
- Trained the model for **100 epochs**, optimizing performance using techniques like data augmentation and dropout.
- Collected and labeled custom dataset for training.

### AUTOMATED BILL EXTRACTION SYSYTEM

- **Key Skills: OCR, Google Vision API, Streamlit, LLMs, LangChain**     **Project Link**
- **Planned and executed** a Streamlit-based application to automate expense bill processing, accurately extracting key details(date, amount, vendor) and reducing manual workload by **70%**.
- **Integrated and Advanced** Google OCR API to improve text recognition accuracy by **30%,** ensuring faster, error-free data extraction.
- Leveraged **LLM-powered** entity recognition (via Hugging Face API) to categorize extracted data with **85% accuracy.**

### VOICE CALL HANDLING AGENT

- **Key Skills: ElevenLab API, Twilio, Flask, Railway, SQLite, FAST API**     **Project Link**
- Integrated **Twilio Voice API** for real-time call management and **ElevenLabs TTS/STT APIs** to enable natural, human-like speech communication.
- Achieved a **75% reduction in manual call-handling time**, showcasing potential for scaling AI-driven customer support solutions.

### AUTOMATED WHATSAPP AGENT

- **Key Skills: WhatsApp Cloud API, Webhooks, Ngrok, N8N**     **Project Link**
- Integrated **LLM-based workflows** using LangChain, OpenAI, and custom prompt pipelines to automate message understanding.
- Added features like **document extraction**, **summarization**, and **keyword-based routing** to reduce manual effort
- Improved operational efficiency (internal task automation) by reducing manual response handling by **60–70%**.

## REAL-WORLD EXPERIENCE

**Soothsayer Analytics, Hyderabad**                                                      *Feb2025 – Present*
- **Data Scientist Intern**
- **Key Skills: ML, AI, Deep Learning, LLMs**
- Built and fine-tuned LLM models for automation tasks.
- Analyzed NLP datasets and improved accuracy through data cleaning and model tuning.
- Collaborated with senior data scientists to analyze NLP datasets using NLTK, Transformers, and PyTorch frameworks.

**Avnipride Technology**                                                                  *Jun2024 – Aug2024*
- **Python Intern**
- **Key Skills: Python, SQL, API's**
- Collaborated with the team to troubleshoot and resolve issues, ensuring high-quality performance and code reliability.
- Contributed to testing and improving system performance through the use of Python libraries and frameworks.

**Confederation of Indian Industry, Advertising / Events**                                *Jan 2023 – Jan 2023*
- **Team Coordinator**
- **Key Skills: Public Speaking, Management, Team Coordination**
- Coordinated a team for the G20 Summit, facilitating smooth interactions with international delegates and key stakeholders.
- Led a team of **10+ members** at the G20 Summit, facilitating **seamless interactions** between international delegates and key stakeholders.

## PUBLICATION

**A Study on Potential of AI in Healthcare Sector**                                       *Feb 2024*
- **Metszet Journal** | Mentor: Dr. Piyush Choudhary | No. of Authors: 2
- Conducted in-depth analysis of various AI technologies and their impact on the healthcare industry.
- Publication  Link:  [Research Paper]

**Does Fine-Tuning Matter? A Practical Study with LLaMA, T5, and DistilBERT**             *Jun 2025*
- **Medium | Key Skills: GCP, Quantization, Ollama**
- Compared multiple transformer models to understand how fine-tuning affects accuracy, performance, and generalization.
- Presented empirical results on expense extraction, text classification, and NLP tasks.
- Publication  Link:  [Publication Link]

**Date of Birth:** 4th Mar 2003 **| Nationality:** Indian **| Present Location:** Indore, Madhya Pradesh