

Damodar Bhawsar

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PROFILE SUMMARY

- Data Scientist** with hands-on experience in **Machine Learning, Deep Learning**, and data-driven automation. Skilled in building **end-to-end ML pipelines** using **Python, Scikit-learn, TensorFlow, and PyTorch**. Experienced in **OCR, NLP**, and **LLM-powered systems** for intelligent data extraction and automation. Developed a **multi-agent email automation system** and contributed to **MCP** and **A2A** research. Passionate about applying **AI, predictive modelling**, and **MLOps** to deliver scalable, real-world solutions with business impact.

EDUCATION

Prestige (PIEMR), RGPV, Indore, MP, India | Bachelor of Technology (Computer Science & Engineering) 2021-2025

- Courses:** Object-oriented programming and design principles (OOPS), Database, Data Structures, Software Design Patterns.

WORK EXPERIENCE

Soothsayer Analytics, Hyderabad – Junior Data Scientist Feb 2025 – Current

- Created and delivered **RESTful APIs** for seamless integration between frontend and backend services, enabling data flow and automation.
- Collaborated and optimised **MySQL** database schemas and queries, reducing query execution time by **30%** and ensuring data integrity.
- Managed backend development, including data ingestion, processing, and storage with OCR and LLM-powered extraction pipelines.
- Collaborated with internal **stakeholders** and participated in code reviews with cross-functional team members, demonstrating strong communication skills to build a secure and scalable platform.

AvniPride Technology, India - Python Intern April 2024 – May 2024

- Revitalised** a legacy press management system using Python, which reduced previous system errors by **20%**
- Engineered and enhanced backend solutions** with **MySQL integration**, improving **database performance** and reducing query latency.
- Designed and integrated automated data processing workflows, boosting system efficiency and reducing manual intervention by **40%**.

KEY PROJECTS

AUTOMATED VOICE CALL HANDLING AGENT | ElevenLab API, Twilio, Flask, Railway, SQLite, FastAPI | [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 Invoice Extraction | N8N, Python, LlamaIndex, DeepSeek | [LINK](#)

- The system **automatically reads invoice emails, extracts PDF attachments**, parses complex invoice layouts, **converts unstructured data into a structured schema**, and stores the results in Google Sheets — **all without manual intervention**.
- Performed comprehensive **text preprocessing** (tokenisation, stop-word removal) and leveraged **Count Vectorizer** for robust feature extraction, improving model **interpretability, efficiency, and reliability**.

AUTOMATED BILL EXTRACTION SYSTEM | OCR, Google Vision API, Streamlit, LangChain, LLMs, Python | [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 categorise extracted data with **85% accuracy**

AUTOMATED RAG-AGENT COMMUNICATION SYSTEM | [LINK](#)

- Building a system where AI agents can communicate with each other autonomously using an **A2A (agent-to-agent) workflow**.
- Exploring how agents can share context, delegate tasks, and collaborate to produce better decisions and outputs.
- Designing flexible modules for intent routing, message planning, and reasoning to make **agent communication** smoother and more efficient.

TECHNICAL SKILLS

- Programming Languages** : C, C++, Python (expertise in backend & AI development)
- AI & ML** : Deep Learning, Natural Language Processing (NLP), Computer Vision, Generative AI (LLMs)
- Cloud Platforms & Deployment**: AWS (EC2, S3, Lambda), Google Cloud Platform, Docker, CI/CD with GitHub Actions
- Databases** : MySQL, complex SQL queries (Joins, Subqueries, CTEs), database administration.
- Algorithmic Techniques** : Data Structures, algorithm optimisation, efficient coding practices.

PUBLICATION

A Study on the Potential of AI in the Healthcare Sector Feb 2024

- Metszet Journal** | Key Skills: Artificial Intelligence, Healthcare, Uses of AI in Healthcare
- Conducted in-depth analysis of various AI technologies and their impact on the healthcare industry. [metzet 4303 R.pdf](#)