

MANAS MAHAJAN

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SUMMARY

Data-focused analyst with experience in SQL, ETL pipeline automation, Excel and Power BI reporting, and translating business requirements into metrics, dashboards, and actionable insights. Proven record of partnering with engineering and business stakeholders, automating data collection from 438 distributed servers, and analyzing very large datasets to improve operational efficiency by up to 45%.

EDUCATION

IIM Indore & IIT Indore, MS in Data Science and Management

Aug 2025 – Jun 2027

Mumbai University (VESIT), BTech in Artificial Intelligence and Data Science (GPA: 9.36/10)

May 2021 – Jul 2025

SKILLS

- **Analytics & BI:** SQL (joins, aggregations, window functions), MS Excel (VLOOKUP, Pivot Tables, Macros/VBA), Power BI (dashboards, KPI reporting, geospatial visuals), Data Analysis, Business Analysis, Requirements Gathering, Data Mining.
- **Data Engineering & ETL:** ETL pipeline design & automation, PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, Vector Databases, Azure DevOps CI/CD, cron scheduling, FastAPI.
- **Programming:** Python 3 (Pandas, NumPy), SQL, TypeScript, RESTful Services, Microservices.
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, ECS), Docker, Git & GitHub, Streamlit, VS Code.
- **ML & GenAI:** Machine Learning, Predictive Modeling, XGBoost, RAG, LLM Fine-tuning, Agentic Workflows, LangChain, Hugging Face.

EXPERIENCE

AI Freelancer | Caleria Properties | UK (Remote)

May 2026 – Present

- Engineered a web-scraping and AI-driven extraction pipeline to aggregate, clean, and structure a database of professional contacts (solicitors, accountants, property surveyors), turning unstructured web data into a queryable asset.
- Launched and monitored the live beta of companieshouseai.co.uk; defined performance-tracking metrics and analyzed user-feedback data to prioritize iterative improvements.
- Built a custom Model Context Protocol (MCP) tool to streamline complex data queries and improve information-retrieval efficiency.

AI Product Associate | Mosdorfer Pvt Ltd | Nashik, India

Jun 2025 – Present

- Partnered with engineering and procurement stakeholders to gather requirements, define scope, and translate business problems into automated data solutions, improving workflow efficiency by 35%.
- Automated data extraction, validation, and reporting workflows using multi-agent orchestration, standardizing recurring operational reports for business teams.
- Designed RAG-based semantic retrieval over technical-specification and contract repositories using Python, embeddings, and vector databases, cutting document search time for procurement analysis.
- Deployed services on AWS (EC2, S3, Lambda) with Docker; applied CI/CD, versioning, logging, and monitoring to ensure reporting reliability in production.

Data Intern | Reliance Industries Ltd | Navi Mumbai, India

May 2024 – Jul 2024

- Automated real-time ETL/ingestion pipelines for production data from 438 distributed server instances across Reliance sites in India using FastAPI, improving update efficiency by 45%.
- Integrated PostgreSQL with Azure CI/CD pipelines, reducing latency and improving data freshness for downstream business reporting.
- Implemented cron-based auto-scheduling for large-scale, nationwide data collection, ensuring zero-lag updates on very large datasets.

ML Research Intern | Spartificials Innovations | India

Jun 2023 – Aug 2023

- Benchmarked StyleGAN, Pix2Pix, and Conditional Pix2Pix on the Galaxy Zoo 2 dataset (~300k images); compiled a research report with experimental results, comparisons, and recommendations.

PROJECTS

AgroCast – Satellite-Powered Crop Yield Prediction & BI Dashboard

- Developed a Power BI dashboard with geospatial maps and KPI indicators for real-time agri-intelligence and low-yield alerting.

- Analyzed and preprocessed multi-source crop data using Pandas, GeoPandas, and Rasterio; improved prediction accuracy by 21% using XGBoost.

ReGenAI – Multi-Agent Research Assistant

- Built a multi-agent research platform using Groq-hosted LLaMA-3 and AutoGen, reducing manual research effort by 50% through automated retrieval, summarization, and visualization generation.

MySPACE – Interior Design Platform

- Engineered an end-to-end generative AI platform (fine-tuned ControlNet, LoRA); reduced rendering latency below 1.5s and improved layout accuracy by 35%.

CERTIFICATIONS & ACHIEVEMENTS

- Certified in Power BI (Coursera), Agentic Design with AutoGen (DeepLearning.AI), and Anomaly Detection (NVIDIA).
- Finalist at HACK-AI-THON 2025 and Inspirobiz 5.0; published research paper “Aarogyachar – An Alternate Therapy” (IJCA).