

# Gaurang Solanki

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## PROFESSIONAL SUMMARY

Data Scientist with 3+ years of experience building and deploying machine learning, deep learning, and automation solutions across production environments. Skilled in computer vision, ETL engineering, workflow automation, and end-to-end model deployment. Delivers scalable systems, improves operational efficiency, and translates complex data problems into practical, production-ready solutions.

## EXPERIENCE

### Data Scientist

June 2024 – Present

Envision Building Products LLC

Lamar, MO

- Optimized and upgraded defect detection performance using YOLO-based computer vision models, cutting scrap rate by 17% and reducing overhead labor by 33%.
- Led data collection, labeling, and quality control processes on thousands of images, ensuring high-quality datasets and consistent model performance across environments.
- Built and maintained a Flask-based web application to automate complex drawing ETL workflows, improving turnaround by 24% and reducing drafting errors by 12%.
- Developed and deployed robotic process automations (RPAs) via Azure DevOps pipeline, saving over 20 manual work hours weekly across critical daily operations.
- Collaborated with cross-functional teams to identify inefficiencies and deliver data-driven automation and analytics solutions across manufacturing processes.

### Graduate Assistant-Data Analyst

June 2023 – May 2024

Advising Department, University of Missouri–Kansas City

Kansas City, MO

- Extracted and consolidated data from multiple academic and administrative systems to support data-driven decision-making.
- Built Power BI dashboards to track key performance metrics, improving visibility for advisors and leadership.
- Automated weekly reporting tasks, saving hours of manual effort and improving process accuracy.

### Junior Machine Learning Engineer

May 2021 – July 2021

Omdena

Remote

- Collaborated with a global team to design and develop an end-to-end object detection and recommendation platform from scratch, delivering a scalable system with an optimized deployment workflow.
- Contributed to MobileNet SSD architecture for lightweight, deployable dense object detection application.
- Managed data annotation and quality verification processes to maintain dataset integrity for training and validation.
- Reduced supervision needs and improved process transparency, cutting operational inefficiencies and costs.

## TECHNICAL SKILLS

**Programming:** Python, SQL, R, C/C++, Java, MATLAB, JavaScript, HTML/CSS

**Data Science:** ETL, Data manipulation & analysis, Machine Learning, Deep Learning, CNN, GNN, NLP, RNN, LLMs, RAG, Agentic AI

**Tools & Platforms:** Azure, Spark, PyTorch, TensorFlow, Docker, Git, Flask, Power BI, APIs, Power Automate Flow

## EDUCATION

### University of Missouri–Kansas City

Master of Science in Data Science, GPA: 3.83/4.0

Aug 2022 – May 2024

**Award:** Discipline Distinction for academic excellence.

**Research:** Integrated knowledge graphs and graph neural networks for ontology-based classification and summarization.

**Projects:** Animal Migration due to Climate Change Analysis, Real-time Sentiment Analysis on Tweets, ML-Based Diabetes Management Platform, Facial Recognition and Validation System.

### Lovely Professional University

Bachelor of Technology in Information Technology

Aug 2018 – May 2022