

MANISH RAJ

DATA SCIENTIST

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PROFILE SUMMARY

Data Scientist with 2+ years of industry experience working on machine learning, computer vision, NLP, and time series forecasting projects across healthcare, logistics, and supply chain domains. I have published 3 peer-reviewed research papers in time series forecasting, logistics optimization and built real-world ML models that reduced waste, improved forecasting accuracy, and automated manual processes. I work with Python, SQL, TensorFlow, YOLOv8, and Hugging Face across end-to-end ML lifecycle including data preprocessing, EDA, feature engineering, model training, and deployment.

TECHNICAL SKILLS

Programming & Querying: Python, SQL

Data Visualization: Power BI, Tableau, Matplotlib, Seaborn

Machine Learning & Deep Learning: Supervised & Unsupervised Learning, Hypothesis Testing, Regression Analysis, Scikit-learn, TensorFlow, Keras, NLP, Deep Learning, Computer Vision, LLMs

Data Analysis & Processing: Pandas, NumPy, Data Preprocessing, EDA, Feature Engineering

Databases: MySQL, SQL

Tools & Technologies: MS Excel, Jupyter Notebook, Google Colab, Spyder, Flask, Streamlit, Hugging Face, YOLOv8, Roboflow, AWS S3,

PROFESSIONAL EXPERIENCE

AI Analyst (Data Scientist) — AiSPRY, Hyderabad, India

Nov 2024 – Nov 2025

- End-to-End Project Delivery:** Managed the full data science lifecycle — preprocessing, EDA, feature engineering, model tuning, and deployment — across 5+ industry projects using Python, SQL, TensorFlow, and Hugging Face, ensuring each solution aligned with business objectives and delivered actionable insights.
- Machine Learning Pipeline Development:** Built and shipped an NLP pipeline (Scrapy, Hugging Face, Streamlit) for automated news summarization and classification, cutting manual processing time by 70%.
- Model Fine-Tuning & Evaluation:** Fine-tuned 3 transformer-based NLP models (Pegasus, T5, and DistilBERT) on custom datasets, achieving a 69% ROUGE score for abstractive text summarization while improving classification performance through hyperparameter optimization.
- Cross-Functional Collaboration & Research:** Partnered with cross-functional teams to translate business problems into scalable ML solutions; authored 3 peer-reviewed research papers documenting methodology and validating results to senior stakeholders.

Data Science Intern — 360DigiTMG, Bangalore, India

Jan 2024 – June 2024

- Training Program:** Completed a 6-month training program where I learned data science and machine learning from the ground up, including deep learning, NLP, and how to deploy models. Did real project work throughout the program.
- Applied Computer Vision Solution:** Developed Feathered Guardian, a computer vision-based poultry litter monitoring and early-warning system using YOLOv8 and Streamlit, achieving 92.3% mAP for object detection while reducing ammonia-buildup risk by 40% and improving operational sustainability.
- Model Building:** Built and tested different ML models, explored the data carefully, and improved the models step by step. Shared findings and results with mentors and other teams during the program

PROFESSIONAL EDUCATION & CERTIFICATIONS

- Professional Program on Data Science and AI - 360DigiTMG (Industry-recognized certification focused on practical applications of data science)
- Certificate Course on Data Science by NASSCOM
- Diploma in Artificial Intelligence
- Google Data Analytics Professional Certificate

ACADEMIC BACKGROUND

Bachelor of Commerce - Magadh University, Gaya

Dec 2018

RESEARCH PUBLICATIONS

- Machine Learning-Based Pallet Optimization for Warehouse Efficiency: A Data-Driven Approach** – IJISRT Volume 10, Issue 5, May 2025 | Article ID: IJISRT25MAY335
- Real-Time Multivariate Vital Sign Forecasting in Intensive Care Units: A Comparative Study of Machine Learning Models with Emphasis on Time Series Mixer for Early Warning Systems** – IJISRT Volume 10, Issue 6, June 2025 | Article ID: IJISRT25JUN278
- Reverse Logistics Optimization in the Indian Dairy Industry: Forecasting Vendor Returns to Reduce Spoilage** – IJISRT Volume 10, Issue 3, March 2025 | Article ID: IJISRT25MAR1266