RISHI GARG

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Summary

I am a **Data Scientist** with **2+** years of experience applying AI-driven solutions to real-world business problems. I hold an **M.S. in Computer Science** with a specialization in **AI** from the **University of Paderborn, Germany**, and a **B.Tech in Computer Engineering**. Expertise in Deep Learning, NLP, Transformers, Gen AI, etc.

Professional Experience

Fraunhofer IEM   **Oct'23 - Oct'25**
Data Scientist (RA)   *Paderborn, Germany*

- Developed real-world GenAI solutions for industrial and educational use cases.
- Built MVP for AI-powered handwriting recognition and automated grading tool using GPT-4o + OpenCV; accepted for pilot testing with German educators.
- Created synthetic datasets using local LLMs and fine-tuned BERT for an enterprise AI assistant for WAGO.
- Contributed to development of pilot project evaluating agentic AI frameworks Autogen for multi-agent problem-solving.

MasterJi Classes   **Sept'20 - Mar'21**
Data Scientist   *Dehradun, India*

- Built and deployed a supervised ML model to predict lead-to-student conversion probability from tabular data.
- Designed data pipelines and evaluation workflows to support data-driven marketing and enrollment decisions.

Skills

Data Science	Regression, Clustering, Ensembles, ANN, RNN, Transformers, LLMs
Language/Libraries	Python, Javascript, Flask, Streamlit, PyTorch, TensorFlow, Hugging Face, NumPy, Pandas
Data & MLOps	EDA, Data Preprocessing, Model Optimization, MLFlow, Git, Docker
Systems & Tools	Linux, Slurm, Bash

Education

University of Paderborn   **2025**
MS - Computer Science (AI), Grade: Good (2.1/1.0)   *Paderborn, Germany*

DIT University   **2017**
BTech - Computer Science and Engineering, Grade: Good (8.0/10)   *Dehradun, India*

Major Projects

Detection of AI-generated Text with Lightweight, Explainable Models   **2025**
Topics: Hyperparameter Optimization, BERT, Transformers, Explainability, NLP

- Did Fine-tuning of BERT and Transformer-based Siamese Neural Network models to classify AI-generated vs. human-written tweets.
- Used hyperparameter optimization and model explainability techniques.

WAGO — Industry-Scale AI Chatbot Development   **2025**
Topics: BERT, Transformers, NLP, Deep Learning

- Generated synthetic dataset and fine-tuned models for relevance classification.

Certifications

- **Advanced Learning Algorithms** — Stanford Online
- **Unsupervised Learning, Recommenders, Reinforcement Learning** — DeepLearning.AI