

Rajveer Singh

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PROFESSIONAL SUMMARY

Final-year Computer Science student with deep hands-on experience building, evaluating, and documenting complex AI/ML systems across computer vision, NLP, and generative AI domains. Skilled at constructing multi-step technical pipelines, benchmarking model outputs against rubric-based criteria, and identifying failure modes and edge cases across diverse datasets. Extensive exposure to LLMs through prompt engineering, RAG pipelines, and LangChain-based agent design. Strong written communicator who produces clear, structured technical documentation built to last. Excited by how frontier models actually learn — and eager to contribute to the reasoning content and evaluation datasets that push their capabilities forward.

TECHNICAL SKILLS

Domain Expertise: Machine Learning, Deep Learning, Computer Vision, NLP — multi-domain technical depth

LLM & Reasoning: Prompt Engineering, LangChain, RAG, Hugging Face Transformers, LLM Fine-tuning, Chain-of-Thought Reasoning

Model Evaluation: Rubric-based Assessment, Benchmarking, Failure Mode Analysis, Edge Case Identification, Multi-dataset Testing

Languages: Python, SQL

ML Frameworks: PyTorch, TensorFlow, Scikit-learn, Keras

Deep Learning: CNN, LSTM, Transformer, Transfer Learning, Fine-tuning, Object Detection

Documentation & Comms: Structured Technical Writing, Pipeline Documentation, Solution Authoring

MLOps & Cloud: Docker, AWS, MLflow, CI/CD, REST API, Inference Serving

Tools: Git, FastAPI, Flask, OpenCV, Tesseract OCR

EDUCATION

Shri Bhawani Niketan Institute of Technology & Management — Jaipur, India

2022 – 2026

B.Tech in Computer Science & Engineering

- Relevant Coursework: Deep Learning, Computer Vision, NLP, Data Structures & Algorithms, Database Management Systems, Distributed Systems

EXPERIENCE

REGex Software Services — Jaipur, India

June 2025 – Present

Data Science Intern

- Evaluated ML model outputs against defined performance criteria across multiple structured datasets, identifying failure modes, edge cases, and degradation patterns — directly analogous to reviewing model responses on rubric criteria for LLM reasoning tasks.
- Authored end-to-end technical documentation for 3 data pipelines (ingestion → feature engineering → model evaluation), written to be clear and reproducible enough for future use by other team members.
- Designed AI-driven solutions for process automation by constructing multi-step problem statements, defining expected outputs, and validating solutions against real business constraints.
- Collaborated cross-functionally across engineering and product teams, communicating complex technical findings in structured, unambiguous written reports.

PROJECTS

Multi-Dataset Behavioral Classifier | Model Benchmarking, CNN, Transfer Learning, OpenCV

[GitHub](#)

- Benchmarked and evaluated CNN-based classifiers across 3 independent datasets (FER-2013, RAF-DB, CK+) covering 7 output categories — designing rubric-calibrated difficulty tiers and identifying cross-dataset failure modes that revealed systematic edge cases in baseline models.
- Fine-tuned and domain-adapted pre-trained models, producing reference solutions with documented reasoning for why the fine-tuned model outperformed baseline by 12% — the kind of structured, reproducible evaluation that trains and evaluates models for years.
- Designed a modular ML pipeline with clear documentation at every stage (preprocessing → training → evaluation → inference), reducing experiment turnaround time by 35%.
- Optimized inference pipeline for real-time video stream processing at 24 FPS, improving speed by 30% through systematic diagnosis of preprocessing bottlenecks.

AI Auto Job Application Agent | LLM Reasoning, LangChain, RAG, Prompt Engineering

[GitHub](#)

- Engineered multi-step LLM reasoning pipelines using LangChain and transformer models, constructing prompt chains that decompose complex tasks into sub-problems — directly practising the kind of multi-step problem construction ReasonCore requires.
- Designed and iterated prompt rubrics for RAG-based document analysis, achieving 90%+ relevance matching by systematically identifying where model responses failed and refining prompts accordingly.
- Authored structured documentation for each pipeline stage (scraping → parsing → generation) clear enough for independent reproduction, reducing manual rework by 70%.
- Built AWS-compatible infrastructure supporting 50+ concurrent requests, tested against edge cases including malformed inputs, ambiguous prompts, and out-of-distribution job descriptions.

Multilingual OCR System | NLP, Multi-domain Evaluation, REST API, Data Pipeline

[GitHub](#)

- Built and evaluated an OCR system across 15+ languages and 500+ documents, constructing domain-specific test cases to probe accuracy limits and edge cases (handwriting, low resolution, mixed scripts), achieving 93% extraction accuracy.
- Documented evaluation methodology, failure modes, and accuracy thresholds at each pipeline stage — producing reference-quality technical records usable by future engineers.
- Developed REST API with sub-200ms response time and structured database logging, supporting retrieval and review of 100+ historical outputs.

WHY REASONCORE AI

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- Multi-domain technical depth: strong across ML, computer vision, NLP, and generative AI — able to author and evaluate reasoning problems spanning multiple disciplines simultaneously.
 - Hands-on LLM exposure: built production-grade LLM agents using LangChain, RAG, and prompt engineering; deeply curious about how frontier models learn and where they fail.
 - Evaluation-first mindset: all three projects involved rigorous multi-dataset benchmarking, rubric design, failure-mode identification, and structured reference documentation.
 - Clear technical communicator: all pipelines and experiments documented to a standard reproducible by others — exactly the bar needed for training data that lasts.

CERTIFICATIONS

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- IBM Big Data Foundation (Level 1 & Level 2)
 - HackerRank SQL – Intermediate

- [Software Architecture Foundations – LinkedIn Learning](#)