

NIHAL JAISWAL

Entry-Level Data Scientist | ML Engineer | NLP Specialist | AI Engineer
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Summary

AI Engineer and Data Scientist with proven experience building and deploying ML, NLP, and deep learning models using Python, TensorFlow, and PyTorch. Led 5+ end-to-end AI projects improving automation efficiency and reducing reporting time by 7+ hours weekly. Directed teams across 5 national hackathons (secured 2nd place) and organized the college annual fest (AVATAR). Spearheaded the development of scalable AI-driven solutions integrating LLMs and automation pipelines to enhance model deployment and operational efficiency.

Core Skills

- Python, SQL, TensorFlow, PyTorch, Hugging Face
- Langchain, LLM Finetuning, RAG, Flask, FastApi
- LLM Integration, Prompt Engineering, Conversational AI
- MongoDB, MySQL, cloud(AWS/GCP/AZURE), Firebase
- Docker, API Development, GitHub CI/CD
- Zapier, n8n, AI Agent Development, Lovable AI
- BeautifulSoup, Data Visualization, Excel Automation
- PySpark, Snowflake, Pandas, Numpy, OpenCV, Streamlit

Experience

AI & Automation Intern

July 2025 – August 2025

Mirai School

Remote

- Designed and deployed AI-driven learning tools and NLP chatbots, automating 80% of student Q&A interactions.
- Built n8n workflows to streamline data pipelines and reduce reporting time by 35%.

AI Engineering Intern

June 2025 – Ongoing

Meghaminds IT Services

Remote

- Engineered a student performance prediction system, boosting accuracy to 99.23% using ML models on educational datasets.
- Engineered a big data recommendation engine on the MovieLens dataset, optimizing collaborative filtering pipelines and improving prediction efficiency by 25%.

Data Science Trainee

2023

PW Skills

Virtual

- Completed intensive training in ML, Deep Learning, NLP, and Data Engineering with 10+ hands-on projects.
- Applied TensorFlow, PyTorch, and Flask to build predictive, CV, and NLP models with real-world datasets.

Projects

Ask-me-Anything Chatbot | LLM, Python, Flask

GitHub

- Developed conversational chatbot using LLMs to answer domain-specific queries in real time, achieving 92% response accuracy.
- Deployed via Flask API, handling 100+ concurrent users with 1s latency.

Cross-lingual NLP System | Hugging Face, Transformers

GitHub

- Constructed multilingual pipeline for text classification & translation across 5 languages, enabling seamless cross-language NLP tasks.
- Improved classification accuracy by 15% using transformer-based fine-tuning.

Sports Certificate Analyzer | NER, Python

GitHub

- Applied Named Entity Recognition to extract athlete details from scanned certificates with 93% F1 score.
- Automated verification pipeline reducing manual validation time by 60%.

Pneumonia Detection | VGG19, TensorFlow

GitHub

- Implemented VGG19-based deep learning model on chest X-ray dataset achieving 96% accuracy.
- Implemented training pipeline with data augmentation, reducing overfitting by 12%.

Myntra Review Scraper & Analyzer | Python, BeautifulSoup, NLP

GitHub

- Created scraper to extract 5K+ product reviews and performed sentiment analysis with 87% accuracy.
- Generated customer insights to identify top issues, improving review-driven recommendations.

Education

Rajkiya Engineering College, Banda — B.Tech in Information Technology

(2022 – 2026)

TN Inter College, Ghazipur — Higher Secondary (81%) & Secondary (87%)

(2019 – 2021)

Certifications

- Data Science with Generative AI - PW Skills
- Data Skills Certificate - YBI Foundation
- IR4.0 Foundation - Microsoft & SAP TechSaksham
- RHCSA Rapid Track (RH199) - Red Hat