Rohan Singh

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Summary

Certified in core AI and Data Science domains including **Supervised/Unsupervised** Learning, **Exploratory Data Analysis**, and networking fundamentals (Coursera). Complemented by training in Agile, software engineering, and Linux (Wingspan).**Kaggle** contributer. Actively working on NLP tasks, **RAG-based agent systems**, and **large language models (LLMs)**, bridging theoretical knowledge with real-world AI applications.

Experience

ML Intern, Cloudcredits *May 2025*

- Worked on task-specific Small Language Models (SLMs).
- Implemented Byte Pair Encoding (BPE) for optimized tokenization and vocabulary control.
- Built and evaluated lightweight classification models for domain-specific tasks.

Skills

— Programming Languages: — Python, C++, SQL
— Databases: — SQLite, Neo4j (Knowledge Graphs)
— AI & Machine Learning: — Supervised, Unsupervised, Reinforcement, Deep Learning (CNN, LSTM, Transformers), NLP (BPE Tokenizer, Embeddings), Computer Vision (CV2, Mediapipe), GenAI, PINNs, AutoML
— Hyperparameter Experiment Tracking: — Optuna , Weights & Biases (WB)
— Data Science & Analytics: — Data Preprocessing, Feature Engineering, Statistical Analysis, Hypothesis Testing
— Frameworks & Libraries: — TensorFlow, PyTorch, Keras, Scikit-Learn, Hugging Face, OpenAI API
— Cloud: — AWS-S3 , Cloudinary
— Deployment & APIs: — Flask, FastAPI, Render

Projects

— MLOps Pipeline Distribution using DVC — Developed scalable pipelines for ML model versioning and deployment using DVC.

— Livestock Disease Prediction Model (Lumpy and Rinderpest) — Validation Accuracy: ∼95.3%, Test Accuracy: 96.56%

— Sansad Insight — Developed a smart FAQ bot leveraging LLMs and graph databases to decode and query Parliamentary discussions.

— Determining Leg Deformities using MobileNet — Built a lightweight CNN model using MobileNet to detect and classify leg deformities from images, enabling early intervention and care.

— Bubble Sheet Marks Evaluator using OpenCV and MediaPipe — Developed an automated bubble sheet grader using contour detection and hand landmark tracking for accurate scoring and visualization.

— AeroPINN — Used Physics-Informed Neural Networks (PINN) to simulate airflow patterns around airfoils in real time.

— Advanced Regression on House Price — Built ML models for house price prediction using advanced regression techniques.

Certifications

Supervised Learning — Coursera
Unsupervised Learning — Coursera
EDA — Coursera
Network Fundamentals — Coursera
Agile Testing — Wingspan
Software Engineering — Wingspan
Linux Basics — Wingspan

Education

Bennett University 2022 – 2026
Bachelor of Technology (B.Tech), Computer Science Engineering with specialization in AI
CGPA: 9.05 / 10

Hobbies and Interests

Playing badminton, reading tech blogs