Rohan Singh

LinkedIn   **GitHub**   **Kaggle**   **GfGeeks**   **9555212382**   **rohan4u.official@gmail.com**

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*

• Implemented Byte Pair Encoding (BPE) for optimized tokenization and vocabulary control.

GenAI Intern, Neurabit   *July 2025*

• Worked on WhatsApp AI Bot for Padel Matchmaking - (Sweden Based Client)

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: $\sim$95.3%, Test Accuracy: 96.56%

— **ConvoLense** — It is a cloud-native service that transforms long-form audio like debates or meetings into structured, searchable insights using LLMs, vector search, and graph reasoning.

— **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.

Certifications ———————————————————————————————

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