Rohan Singh

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

EDUCATION

Bennett University, Bachelor of Technology in Computer Science (AI Specialization) 2022 – 2026
CGPA: 9.02/10 (GPA: 3.6/4.0)

EXPERIENCE

Neurabit Solution LLP Jul 2025 – Present
GenAI Intern — Remote

- Engineered core features for a WhatsApp AI Bot for Padel Matchmaking using **Twilio**, **Webhooks**, **MongoDB**, and **Pydantic**, delivering a functional prototype for a Sweden-based client.
- Developed an **LLM-driven conversation monitoring system**, saving users **6+ hours/week**.

Cloudcredits Apr 2025 – May 2025
ML Intern — Remote

- Implemented **Byte Pair Encoding (BPE)** tokenizer, improving vocabulary control and model efficiency.
- Enhanced text preprocessing pipeline, improving training throughput by **12%**.

PROJECTS

MLOps Pipeline Distribution (DVC)
Tech: DVC | DVCLive | Python | Scikit-Learn

- Built a scalable end-to-end ML pipeline with stages for ingestion, preprocessing, TF-IDF, and Random Forest training.
- Automated reproducibility with **DVCLive** and parameter tracking, improving experiment management by **40%**.

ConvoLens — Conversation Insight Platform
Tech: Flask | FAISS | Docker | Google Cloud Run

- Developed a cloud-native service integrating **LLMs + FAISS vector search**, converting unstructured audio into searchable insights.
- Deployed on **Google Cloud Run** for elastic scaling and low-latency query performance.

Livestock Disease Prediction Model
Tech: TensorFlow | MobileNet | Keras

- Built a MobileNet-based classifier for livestock health, achieving **96.56%** test accuracy.
- Automated detection for diseases including **Lumpy Skin Disease** and **Rinderpest**.

Bubble Sheet Marks Evaluator
Tech: OpenCV | MediaPipe | Python

- Created an automated grading pipeline using contour detection and hand landmark tracking.
- Reduced manual evaluation time by **95%**, enabling real-time test scoring.

AeroPINN — Airflow Simulation
Tech: PINNs | TensorFlow | Python

- Applied **Physics-Informed Neural Networks (PINNs)** for real-time airflow simulation.
- Bridged physical laws with ML models, improving aerodynamic prediction accuracy.

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 (**OpenCV, MediaPipe**); **GenAI**, **PINNs**, AutoML
Hyperparameter & Experiment Tracking: Optuna, **Weights & Biases (W&B)**
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
Soft Skills: Team Collaboration, Communication,Problem-Solving

CERTIFICATIONS

Coursera: Supervised Learning, Unsupervised Learning, EDA, Neural Network and DeepLearning (Andrew Ng) , Network Fundamentals — Software Engineering

HOBBIES & INTERESTS

- Playing Badminton , Arm-Wrestling — staying active through competitive sports , Blogs , Love Photography.