Deepak Kumar Singh

AI / ML Engineer • LLM & Generative AI

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Professional Summary

AI/ML Engineer skilled in Machine Learning, Deep Learning, NLP, and LLM applications. Experienced in RAG pipelines, embeddings, contract intelligence, chatbots, predictive analytics, and speech technologies.

Education

Qualification	School / University	Board	Year	Percentage
MCA (AI & ML)	Chandigarh University	CU	2025	71%
BCA	Dibrugarh University	DU	2018	67%
12th	KV AFS Chabua	CBSE	2015	67%
10th	KV Dibrugarh	CBSE	2013	75%

Technical Skills

• Programming: Python, SQL, R, C, HTML, CSS

• Machine Learning: Regression, Classification, Clustering

• Deep Learning: CNN, RNN, LSTM, Transformers

• Generative AI: OpenAI API, LangChain, RAG, Embeddings, Vector Search

• NLP & Speech: Whisper STT, TTS, Sentiment Analysis, Semantic Search

• Frameworks: TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy

• Deployment: FastAPI, REST APIs, Docker, Swagger

• Visualization: Power BI, Tableau, Matplotlib, Seaborn

• Version Control: Git, GitHub

Experience

Machine Learning Trainee | Arharnish Infotech (2021–2023)

• Worked on preprocessing, feature engineering, ML model training.

• Built LR, DT, RF models using Scikit-learn.

• Hands-on with Pandas, NumPy, supervised/unsupervised learning.

Software & Data Intern | NIC (2020)

• Developed Student Result System using PHP & MySQL.

• Improved backend performance with optimized queries.

Projects

Contract Intelligence API (FastAPI • LLM • Docker)

• Built clause extraction + RAG Q&A; + contract risk detection system using embeddings & FastAPI.

Medical Chatbot (LangChain • Pinecone • OpenAI)

• Developed LLM medical assistant with vector search retrieval.

Speech-to-Text Engine (Whisper)

• Created high-accuracy audio-to-text transcription pipeline.

Generative AI MCQ Generator

• Automated MCQ generation using OpenAI + LangChain templates.

Stock Market News Analyzer (FAISS • RAG)

• Built sentiment + semantic retrieval system for financial news.

Credit Card Default Prediction

• Developed LR & RF models to classify high-risk customers.

Loan Eligibility Prediction

• Built ML model achieving 82% accuracy on loan approvals.

Fraud Detection System (Face Recognition • RFID)

• Created hybrid authentication using RFID + face recognition + MySQL.

Certifications

• Machine Learning Specialization — Coursera

• Deep Learning Specialization — Coursera

• Generative AI with LLMs — Google Cloud

• Python for Data Science — Coursera

• BI & Analytics — Macquarie University

• IBM Excel Visualization — IBM

Strengths

• Strong AI/ML & Generative AI foundation

• Analytical problem-solving

• Fast learner and adaptable

• Team collaboration