

ABHISHEK

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LinkedIn — GitHub — Portfolio

Objective

Motivated B.Tech CSE student specializing in machine learning and data science. **Experienced in building end-to-end ML models, dashboards, Model Finetuning and RAG systems.** Seeking a Data Science / Machine Learning internship to apply analytical, model-building, and deployment skills to real-world use cases.

Certifications

- **Supervised Machine Learning: Regression and Classification** — *Stanford University (Coursera)* — view
- **Advanced Learning Algorithms** — *Stanford University (Coursera)* — view
- **Unsupervised Learning Algorithms** — *Stanford University (Coursera)* — view

Education

B.Tech in Computer Science & Engineering

July 2026 (Expected)

KC Group of Research and Professional Institute, Una, HP

Relevant Coursework: Machine Learning, Data Mining, Statistics, Linear Algebra, DBMS, Operating Systems, OOP

Technical Skills

Programming: Python, R, SQL, C/C++, Java, HTML , JavaScript

Data & ML: Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, NLTK

Tools: Streamlit, Flask, Git/GitHub, Docker, VSCode, Jupyter Notebook

Databases: PostgreSQL, MongoDB, Redis

Interests: Data Analysis, NLP, ML Pipelines

Projects

Handwritten OCR App (TrOCR + Custom Fine-Tuning) — Live Demo

- Developed an advanced handwritten text recognition system using **Microsoft TrOCR** fine-tuned on a custom dataset of 100,000 handwritten names.
- Achieved an impressive **WER of 0.60 at epoch 4**, demonstrating significant improvements over the base TrOCR model, particularly on cursive and messy handwriting.
- Built a seamless **Streamlit UI** for real-time inference and model interaction, hosted on HuggingFace for easy deployment.
- **Tech:** Python, HuggingFace, TrOCR, LoRA, Streamlit, PyTorch

Sentiment Analysis for Amazon Reviews — Live Demo

- Built NLP pipeline using **TF-IDF vectorization + Logistic Regression**.
- Achieved **85.12% cross-validation accuracy**.
- Designed an interactive Streamlit dashboard for real-time text analysis.
- **Tech:** Python, Scikit-learn, NLTK, Streamlit

Dog vs Cat Image Classifier — Live Demo

- Built a convolutional neural network (CNN) from scratch using **TensorFlow & Keras**.
- Performed image augmentation, early stopping, and batch optimization to improve performance.
- Deployed as a simple web-based classifier with Achieved **84.37% validation accuracy**.
- **Tech:** TensorFlow, Keras, NumPy, Pandas, Matplotlib

Achievements

- Completed 20+ ML projects with end-to-end deployment.
- Active GitHub contributor with ML, NLP, and dashboard projects.
- Built and deployed personal data science portfolio website.

Strengths

Analytical Thinking • Problem Solving • Fast Learner • Research-Oriented