Abhishek Kumar

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Professional Summary

Machine Learning Enthusiast with hands-on experience in building scalable ML pipelines, deploying models, and leveraging tools like DVC and MLflow to streamline workflows. Proficient in Python, TensorFlow, and scikit-learn, with a passion for tackling data-driven challenges and optimizing AI solutions for real-world impact.

Education

Master's in Computer Application | P.G College Dharamshala, Himachal Pradesh (2022–2024)
Bachelors of Science in Computer Science | P.G College Una, Himachal Pradesh (2019–2022)

Skills

Programming Languages: Python, SQL
Machine Learning: Data Preprocessing, EDA, Model Training & Evaluation, Neural Networks (CNN), Generative AI (LLMs) NLP, MlOps
Frameworks & Libraries: TensorFlow, Keras, Scikit-learn, NLTK, Pandas, NumPy, Flask, Streamlit, Flask,Django,LangGraph
Tools: DVC, MLflow, Git
Data Management: Feature Engineering, Dataset Versioning (DVC)

Work Experience

AI/ML Developer | Snakescript Solutions LLP
Present | Mohali(Punjab), India

- Working On live Projects related to OpenAi assistants and Knowledgebase

Machine Learning Intern | Solitaire Infosys
April 2024 – September 2024 | Mohali, Punjab

- Implemented scalable machine learning models using Python, scikit-learn, improving prediction accuracy by 12%.
- Designed data preprocessing pipelines to handle missing values, outliers, and feature engineering. Reduced preprocessing time by 20% through optimized data pipelines.

Ai/Ml Intern | Brainwave Matrix Solutions
March 2025 – April 2025 | Noida, Uttar Pradesh

- Built and deployed ML models for real-world projects including **Student Performance Prediction** and **Fake News Detection** using Python and Scikit-learn.
- Performed end-to-end data handling: cleaning, preprocessing, and feature engineering to prepare datasets for training.
- Applied NLP and LLM techniques for text classification and content analysis tasks.
- Gained hands-on experience in deploying models to production and integrating them into applications

Projects

ResumeAi | Currently working

- Built an AI-powered resume analysis tool that parses resumes, matches them with job descriptions, and provides ATS-friendly feedback.
- Integrated features like ATS score predictor, AI-generated resume templates.
- Used technologies such as Django (backend), React (frontend), Render for hosting and Groq for LLM-based processing.
- Designed for scalability with modular components like resume parser, job matcher, and document generator powered by semantic search and NLP.
- TODO- Cover letter generator, interview Q&A generator to assist job seekers end-to-end.

Cold Email Generator | Live | GitHub

- **Technologies**: Python, Generative AI, LangChain, Streamlit, Groq Cloud API, ChromaDB, Pandas
- Designed a generative AI application to automate personalized cold email generation for job applications.
- Integrated LangChain's WebBaseLoader for scraping job links and Groq Cloud API for extracting job requirements and skills.
- Implemented a vector database (ChromaDB) to retrieve relevant portfolio links, increasing workflow efficiency by 80%.

Data Pipeline with DVC and MLflow for Machine Learning | DagsHub

- **Technologies**: Python, DVC, MLflow, Scikit-learn, Random Forest
- Built an end-to-end machine learning pipeline for training a Random Forest Classifier on the Pima Indians Diabetes Dataset.
- Leveraged DVC for dataset versioning, pipeline reproducibility, and remote storage.
- Used MLflow to track experiment metrics, hyperparameters, and artifacts for effective model comparisons.

Twitter Sentiment Analysis | Live | GitHub

- **Technologies:** Streamlit, Scikit-learn, NLTK, TF-IDF, Pandas, NumPy, Kaggle Sentiment 140 dataset
- Developed a sentiment analysis model using logistic regression, achieving 70% test accuracy.
- Preprocessed tweets with stemming, stopword removal, and TF-IDF vectorization for feature extraction.
- Deployed an interactive Streamlit web app for real-time sentiment classification of tweets.

Fruit Classification | GitHub

- **Technologies:** Python, TensorFlow/Keras, Flask, Streamlit
- Designed and implemented a CNN to classify fruits (apple, banana, grape, mango, strawberry) with 85% accuracy.
- Applied preprocessing techniques (resizing, normalization) for optimized model training.
- Deployed a web-based Flask application enabling users to upload images for real-time fruit classification.

Certifications

Oracle Cloud Infrastructure 2024: Generative AI Professional | *Issued:* ***Jan 2024*** **|** View Certificate
OpenCV: Free TensorFlow Keras Bootcamp | *Issued:* **Nov 2023 |** View Certificate
freeCodeCamp: Machine Learning with Python | Issued: **Apr 2025 |** View Certificate
Udemy: Complete Data Science,Machine Learning,DL,NLP Bootcamp by Krish Naik **:** Pursuing
Udemy: Complete MLOps Bootcamp With 10+ End To End ML Projects by Krish Naik **:** Pursuing