Gyanendra Singh

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👤 PROFILE

I am a Software Engineer with 1.3 years of experience in Machine Learning, Python backend development, and building REST APIs. I have built scalable apps for finance, e-commerce, and ride-sharing domains. I have worked on model training, deployment pipelines like GenAI, LLMs (LangChain, FastAPI) and MLOps workflows. My tech stack is Python, Django, Flask, MySQL, MongoDB, Redis, Docker, Scikit-learn, TensorFlow. I always focus on clean code, performance and user experience.

🎓 EDUCATION

B.Tech   2020 – 2024
Noida Institute Of Engineering And Technology   Greater Noida, UP

Intermediate   2017 – 2019
Academic Heights Public School(CBSE)   Gorakhpur, UP

High School   2015 – 2017
Dr. S.P. Inter College(UP BOARD)   Gorakhpur, UP

🧠 SKILLS

- **Programming Language:**
  Python,Java, Dart,HTML, CSS,SQL.

- **Machine Learning And AI**
  ML ,Computer Vision, Natural Language Processing , Deep Learning, Model Deployment, MLOps,Generative AI, LLM,Prompt Engineering.

- **Backend Development:**
  Django, Flask,REST APIs, Migrations, Data Caching.

- **Databases:**
  MySQL, MongoDB.

- **Version Control & Tools:**
  Git, Git Flow, Bitbucket, JIRA, VS Code, CI/CD Pipelines, Docker, MLflow, Anaconda,Jupyter Notebook.

💼 WORK EXPERIENCE

Software Engineer   02/2024 – Present
Techotd Solutions Private Limited 🔗   Noida, UP, India

- I worked on the some of few projects to build a smart and user-friendly e-commerce platform using machine learning, data science and generative AI.
- I built a recommendation system that leverages collaborative filtering and content-based filtering to provide personalized product suggestions to each user based on their shopping history and interests.
- Used predictive models such as linear regression and random forest for sales and offer targeting to accurately target popular products and user-specific offers.
- Implemented sentiment analysis on customer reviews using NLP techniques such as Naive Bayes and SVM to understand which products people liked or disliked — this helped improve the product catalog.
- On the generative AI side, I used transformer-based models like GPT to create auto product description generation and a chatbot reply system that instantly resolved customer questions — making customer support fast and effective.
- I focused on data cleanup, feature engineering, and model accuracy, and also built a dashboard for real-time insights that helped the business team with data-driven decision making.
- Overall, my job was to integrate AI in a smart way to personalize the shopping experience, increase engagement, and provide valuable insights to the business.

📁 PROJECTS

Conversational AI Assistant using LangChain Agents (GenAI, FastAPI, Tool Calling):
- Built a production-ready Genai chatbot using Longchain Agents, LongGraph, and FastAPI.
- LLM-based reasoning, memory and tool calling features integrated for intelligent behavior.
- Made the chatbot connectable to web/mobile apps via REST API.
- Added knowledge base integration for contextual responses using ChromaDB.
- Implemented modular API endpoints for smooth deployment and scalability.
- Tech Used: Python, LangChain, LangGraph, FastAPI, GPT-4,ChromaDB, REST API.

Stock Market Analysis Using News Headlines (NLP, FLASK,REST API):
- Performed time series analysis using Python and machine learning techniques.
- Did data cleaning, preprocessing, and feature engineering to make accurate predictions.
- Used NLP to extract sentiment from headlines and correlate with stock movement.
- Built a REST API with Flask to make predictions accessible via web-based interface.
- Tech Used: Python, Scikit-learn, Pandas, NLP, Flask, REST API.

Face Mask Detection with Machine Learning (Python, Machine Learning,Docker): 🔗
- Created a real-time system that highlights people not wearing masks in live video with a red box, via a CNN model.
- Achieved 97.5% training and 91.3% testing accuracy on Kaggle dataset; deployed and performed face detection using Docker and OpenCV.
- Enabled real-time alerting system for safety monitoring in public areas.
- Designed modular Docker setup to allow smooth deployment on edge devices or servers.
- Tech Used: Python, Scikit-learn, TensorFlow, CNN, OpenCV, Docker.

Movie Recommendation System (Web development,Flask): 🔗
- Took movie data from TMDB API, converted it into numerical vectors using TF-IDF or CountVectorizer, and then recommended similar movies by calculating Cosine Similarity.
- Developed a recommendation system using Flask and Streamlit, and made it accessible by deploying it on Heroku.
- Designed responsive UI with interactive search and recommendations for users.
- Incorporated user ratings and genres to improve accuracy in recommendations.
- Tech Used:Python, Flask, Streamlit, TMDB API, TF-IDF, CountVectorizer, Cosine Similarity, Heroku.

📚 COURSES

Machine Learning With Python 🔗
- I completed the machine learning course on Coursera within four months. This course greatly increased my knowledge of machine learning.

Introduction to Deep Learning and Neural Network with Keras 🔗
- This course covers the basics of deep learning and neural networks using Keras. You'll learn to build, train models, and apply them to real-world problems.

Core and Advanced Java
- I have complete my core and advance Java from the CETPA Private Limited and I have create some project and i have done DSA with Java.

🧩 ACTIVITY

LEET CODE 🔗
- Successfully solved over 500 algorithmic challenges on LeetCode and achieved a competitive programming rating of 1650+.

Github 🔗
- Active GitHub contributor with a diverse project repository, collaborative endeavors, and consistent code quality maintenance.

🌐 LANGUAGES

Hindi
- Hindi

- English