KISHAN YADAV

Hyderabad, Telangana

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Objective

Innovative and results-driven data science graduate with practical experience in building AI-powered applications, LLM-integrated systems, and real-time intelligent solutions. Skilled in Python, machine learning, and full-stack development using tools like Streamlit, LangChain, and Gradio. Proficient in leveraging large language models such as Mistral-7B (Ollama) to generate automated insights, intelligent feedback, and conversational interfaces. Developed impactful projects including a virtual mock interview assistant, fake job posting detection system, and smart waste classification app. Passionate about solving real-world problems through data-driven automation, and eager to contribute to forward-thinking teams in AI research, product development, or data analytics.

Education

Aravali College of Engineering & Management   **Aug 2020 – Aug 2024**
B.Tech in Computer Science (AI & ML)   *Faridabad, Haryana*

Shree Ram Model School   **Apr 2019 – Apr 2020**
Senior Secondary (12th)   *Faridabad, Haryana*

Technical Skills

Languages: Python
Tools/Platforms: VS Code, Jupyter Notebook, PyCharm, Spyder, Git, GitHub, MS Excel, Tableau, Streamlit Cloud, Ollama
Cloud & Big Data: Microsoft Azure ML, Azure ML Pipelines, Databricks, PySpark
Database: MySQL
Libraries/Frameworks:

- **Data Science & ML**: NumPy, Pandas, Seaborn, Matplotlib, Scikit-learn, XGBoost, LightGBM, SciPy
- **Deep Learning**: TensorFlow, PyTorch, Keras, Theano
- **Computer Vision**: OpenCV, MediaPipe, YOLO, Haar Cascade Classifier
- **NLP**: SpaCy, NLTK, Gensim, Hugging Face Transformers
- **LLMs & Generative AI**: LangChain, Hugging Face Transformers, GPT-3/4, Mistral-7B (Ollama), LLaMA 3, Gemini, Prompt Engineering, BERT, ChatGPT, AutoGen, Transformers Agents
- **Web & GUI**: Streamlit, Gradio, Tkinter
- **Automation & Others**: PyAutoGUI, Pycaw, SpeechRecognition, BeautifulSoup
- **MLOps**: MLflow, GitHub Actions, Azure ML Pipelines — Model versioning, experiment tracking, training pipeline automation, model registry, lifecycle management
- **LLMOps**: LangSmith — Prompt evaluation, LLM observability, debugging chains, testing prompt flows

Concepts & Techniques:

- **Machine Learning (Supervised)**: Linear & Logistic Regression, KNN, SVM, SVR, Naive Bayes, Decision Trees, Random Forest, Gradient Boosting, PCA
- **Unsupervised Learning**: K-Means, Hierarchical Clustering, DBSCAN
- **Deep Learning Architectures**: CNN, RNN, ANN, LSTM
- **NLP Techniques**: Tokenization, Lemmatization, NER, Word Embeddings, Sentiment Analysis, Text Classification
- **Transformers & Agentic AI**: Prompt Engineering, Context-aware Chains, Retrieval-Augmented Generation (RAG), LLM Agents, Tool Use with LangChain
- **Generative Models**: GANs, VAEs
- **Data Science Workflow**: EDA, Feature Engineering, Data Preprocessing, Hyperparameter Tuning, Regularization (L1/L2)

Soft Skills: Analytical Thinking, Problem Solving, Adaptability, Collaboration, Communication, Research-Oriented

Projects

MockMate: Virtual Mock Interview Assistant | *Python, Streamlit, LangChain, Ollama* **GitHub**
- Built an AI-powered mock interview web app that generates personalized technical and behavioral questions from resumes using Mistral-7B via Ollama.
- Enabled voice-based answering with in-app recording, transcription using SpeechRecognition, and feedback scoring using LangChain prompts.
- Displayed live feedback, score summaries, and progress tracking for each question in the interview session.
- Exported interview results in both PDF and JSON formats for performance review and future analysis.
- **Client Approach:** Designed to help job seekers practice interviews with AI-generated coaching and evaluation.

StyloGenie – AI Wardrobe Assistant for Smart Outfit Suggestions | *LangChain, Streamlit, Pexels API, Mistral* **GitHub**
- Built a conversational wardrobe assistant that recommends outfits based on user input (clothing item, color, occasion) using LangChain and Mistral.
- Used structured parsing, user memory, and color theory (complementary, analogous, neutral) for style-matching suggestions.
- Integrated Pexels API to dynamically fetch and render real outfit images in a responsive Streamlit web interface.
- **Client Approach:** Personalized styling aid for fashion platforms, stylists, and e-commerce wardrobe curation.

EcoVision: Intelligent Trash Sorting | *Deep Learning, TensorFlow, OpenCV* **GitHub**
- Developed a real-time intelligent trash classification system to promote automated waste segregation in smart bins.
- Trained a MobileNetV2-based CNN on the TrashNet dataset to classify garbage into plastic, paper, metal, glass, and organic categories.
- Achieved over 90% classification accuracy using data augmentation and preprocessing for improved generalization.
- Built a real-time camera interface with OpenCV to detect and classify waste on live video streams.
- **Client Approach:** Positioned as a solution for smart city projects, IoT-driven waste management, and sustainability tech.

DreamSpaceAI – Redesign Your Room with Generative AI | *SDXL, T2I Adapter, Hugging Face, Python* **GitHub**
- Developed a generative AI tool that redesigns interior spaces from room images based on user-described styles (anime, sports, aesthetic, etc.).
- Used Stable Diffusion XL with T2I Adapter and depth estimation to maintain room layout while transforming visual aesthetics.
- Integrated Hugging Face diffusers, GPU acceleration, and custom prompt input for responsive and high-quality design output.
- Enabled both image and voice-based user interaction with real-time rendering and exportable results.
- **Client Approach:** Interior design previews, architectural mockups, and creative visualization for client engagement.

Certifications

- **NPTEL** — Soft Skills

- **NPTEL** — Psychology of Stress and Well-being

- **NPTEL** — Principles of Management

- **Naresh i Technologies** — Full Stack Data Science and AI (Ongoing)

Languages

- Hindi – Native

- English – Proficient