# Jaideep singh rao

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## Skills:-

- **Programming & Data Stack**
  Python (Proficient), SQL (Familiar), Pandas, NumPy, Matplotlib, Seaborn
- **ML/DL Frameworks**
  Scikit-learn, TensorFlow, Keras, Hugging Face Transformers, LangChain
- **App Development & MLOps**
  Flask,FastAPI, Gunicorn, Uvicorn, Docker (Familiar)
- **Databases & Tools**
  Git, GitHub, ChromaDB, pgvector (Familiar), Jupyter Notebook, VS Code

## Projects

**Qunix.chat** ⧉
- Deployed a full-stack RAG (Retrieval-Augmented Generation) web app for chatting with PDF and Excel files.
- Built a **FastAPI** (Python) backend to manage file uploads, text chunking, and the core RAG pipeline.
- Engineered the retrieval logic using **LangChain** for orchestration, **ChromaDB** for vector storage, and **Groq** for high-speed LLM inference.
- Developed a responsive, dynamic chat interface using **React** with asynchronous API communication.
- Managed a full CI/CD pipeline, deploying the **React** frontend to **Vercel** and the **FastAPI** backend to **Render**.

**Codex.ai** ⧉
- Developed an AI-powered code review tool that leverages the **Gemini 2.0 Flash** model for automated feedback on code changes

**Echo-guard : Sonar Data Classification (Machine Learning Project)** ⧉
- Built logistic regression classifier using Python (Jupyter Notebook) to distinguish between mines and rocks using Sonar data.
- Obtained **76% test accuracy** future scope includes improving performance via advanced modeling and feature engineering.

**FlameCast : Algerian Forest Fire Classification (ML Prototype)** ⧉
- Built and evaluated an ML model using the Algerian Forest Fires dataset
- Performed feature engineering and identified overfitting issues.

**Todoitnow : Flask To-do App** ⧉
- Developed a full-stack To-Do list application using **Flask**, **Python**, and **Jinja2** for server-side rendering.
- Implemented full CRUD (Create, Read, Update, Delete) functionality for tasks.
- Utilized **Flask-SQLAlchemy** to manage the database for persistent task storage.

## Courses

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|---|---|
| 02/2025 – 07/2025<br>Online | **Complete DS , ML, DL and NLP Bootcamp by Krish Naik**<br>*UDEMY*<br>• Mastered foundational data science, including statistics, EDA, and feature engineering using Pandas, NumPy, and Matplotlib.<br>• Built and evaluated a wide range of Machine Learning models (Regression, Classification, Clustering) with Scikit-learn. |

- Developed and trained Deep Learning models, including ANNs, CNNs (Computer Vision), and RNNs (Sequence Data) using TensorFlow and Keras.
- Gained practical experience in NLP, from traditional text preprocessing to modern Transformer (BERT) and word embedding techniques.
- Focused on hands-on, end-to-end project deployment, a key component of the curriculum.

03/2025 – 04/2025  **Machine Learning Training**
Udaipur, India  *Techno NJR Institute of Technology*
- Model building, deployment, and real-world applications , On-Campus under Aditya Maheswari Sir

## Certificates

**AWS Educate Machine Learning Foundations course**

**Red Hat System Administration I (RH124)**

**AWS Certified Solutions Architect Training Certificate** ⍈
Koenig - CNO-320601

**Red Hat Certified System Administrator** ⍈
Issued Aug 2025 · Expires Aug 2028
Credential ID 250-122-132