

JATINKUMAR PARMAR

DATA SCIENTIST

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SUMMARY.

I'm a Software Engineer, Python - Data scientist, AI - Data - Mlops and researcher and Development Tech Enthusiast with 6+ years of experience and Total 18+ years of experience in wide functions including Predictive modelling, Data Pre-processing, Feature engineering, Machine learning and Deep learning, Computer Vision, Natural Language Processing, Audio Processing, Satellite image Processing, Quantum Computing, Signal Processing, Prompt engineer, LLM, stable diffusion , Gen AI..

SKILLS:

Programming Languages and Frameworks:

Python	SQL / foxpro	Matlab	C / C++	opencv / pytorch	Keras / Yolov TensorFlow	Pandas / Numpy	Java
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Production-Ready Tools :

Streamlit	Gradio	fastapi	AWS sagemaker	BedRock	Vertex AI	Hugging Face	AWS /GCP
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INTERNSHIPS

- PANTECH: AI/ML/IIOT/DATA SCIENCE , BRAIN COMPUTER INTERFACE | PIXATE: OPENCV GOOGLE COLAB | ROBOTICS ENGINEER TCS. : SPARK FOUNDATION: IOT & CV | SCET: ADVANCE DL & ML SIGNAL PROGRAMMING. | GSRTC SURAT Apprenticeship _ PASA (PROGRAMING ASSISTANT SYSTEM ADMINISTRATOR)

EXPERIENCE:

Freelancer Researcher  March / 2024 , Aug / 2024.

Data science AI /ML Researcher & development

- ★ Integrated RAG for multiple languages and file formats (PDFs, CSVs, and excel). It's used for QA from documents, analyzing data, and creating user-specific plots. Also working around LLMs like GPT-4 to add better capabilities.
- ★ Added new Inverse Prediction flow. This led to a 32% reduction in the prediction time for material properties based on a set of ingredients.
- ★ Developed Explainable AI for regression and classification models. Multiple charts are shown explaining the model's way of predicting.
- ★ Reduced Machine Learning API response time by 20%. Integrated data sanity flow before model training.

SHIV AI LLP & EZ LLM.  June / 2023 , March / 2024

Data science AI /ML Own Startup

- ★ Data science base AI Blip Image to text and stable Diffusion api Created with Deployment AWS Sage maker ec2
- ★ Proficient in monitoring build and production systems using automated monitoring and alarm tools
- ★ Expertise in popular machine learning frameworks, including TensorFlow, PyTorch, Keras, and Scikit-Learn.
- ★ Familiarity with MLOps tools such as ModelDB, Kubeflow, Pachyderm, and Data Version Control (DVC).
- ★ Experience in supporting model builds and deployment for IDE-based models and autoML tools.
- ★ Proficiency in experiment tracking, model management, version tracking, model training, and hyperparameter , [finetune, mistral 7b](#) optimization.
- ★ Expertise in model evaluation and explainability using tools like SHAP and Tensorboard.
- ★ Experience with Databricks, Azure DataLake Gen2, and Unity Catalog. [.RAG / AGENT Chatbot.](#)

web_ AI / ML Product Development .

- ★ Developed entire frontend and backend modules using Python on Flask Web Framework. | Skilled in using collections in Python For manipulating and looping through different user defined objects.
- ★ Handling the day to day issues and fine tuning the applications for enhanced performance.
- ★ Increased training data using the Image augmentation technique.
- ★ Used Transfer learning concept to achieve reasonable accuracy. | Implemented Deep learning image classification model.
- ★ Hearing Aid Product Development uses C/C++ and Python Use. | Product call log with voice audiometry testing by fonix machine calling function.
- ★ Experience with software development and test automation.

ADDITIONAL EXPERIENCE

SSM Infotech Solution Pvt. Ltd Surat ^{July} 17 Oct / 18, July / 22) As a Sr.system engineer

- ❖ Company Name: Vedanta (Goa), Gail (Waghodia, Hazira/MP/UP), Rallis (Ankleshwar) BARC Mumbai, X- Force, E-logbook has been developed for monitoring the data logging activity.
- ❖ The main purpose of this system is to provide customized solutions for the traceability of each instrument and logged data. It is a digitized version of the plant's physical data logbook.

IL&FS Education and Technology Service Surat, (Sep-2017, Aug-18) (Govt. of Gujarat Act) As a Project Manager , Technical Support. (Gyankunj -Primary School Education Project)

- Smart class project Handle, Software Upgrade, Software Error WEB App Solution fixing , Hyper-V, Worked on SQL Queries, Views, Stored Procedure. /UDF and validations.
- Worked on SALES and PURCHASE Transaction Software Installation of Ssm B1 and SQL Server. / Worked on Query report and Crystal Report for different Layouts. E Business One Managed Clients calls for critical issues. Resolved problems, improved operations and provided exceptional client support / Administrator work.

PMKVY (Govt Of Gujarat Act) (July-2012, Aug-2017) As Guest Faculty (EMpower & KVK) with the Education Council.

- Stored Procedure, triggers and Function. Reporting tools like SSRS, Crystal Reports create on Foxpro Database and MS Excel.
- Managing Admission calls for critical issues.. Query Optimization, Debugging, Database, Normalization, Worked on Foxpro, Experience in deploying and implementing projects at client side.
- New Admission Schedule Created, Management with Administrator Process Work. Monthly and Yearly Report Creation.

PROJECT.

Analyze Github Code | [Github](#) August 2023

- Developed a Chrome extension to get a detailed summary of a Github Repository using **LLM**.
- It uses Langchain to interact with **gpt-3.5-turbo** from **OpenAI**. **Flask** is used as a backend server to handle the requests.
- It traverses through each code file in the repository and stores the summary of it. At the end, the model summarizes all the stored summaries into one final response.

YouTube Video Explainer | [Github](#) September 2023

- For a youtube video it provides an **understanding of video's** content through **audio transcription** and image captioning.
- Used Huggingface for **OpenAI Whisper model** for **audio transcription** and **swift former-xs** to get image embeddings, Google Lens API through **SerpAPI** for searching about image frames and **Chromadb** as a vector database.
- The UI is built using **Streamlit**. Video and Audio are processed **parallely**.

PERSONAL DETAILS:

Citizenship: Indian .

Natural Languages: English, Hindi, Gujarati

Interests: traveling, Learning, Journey in Environment. Youtuber, AI gpu product testing , research & development.