Parthiv Shah

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TECHNICAL SKILLS : Machine Learning, Deep Learning, Generative AI, Natural Language Processing (NLP), Hugging Face platform, NLTK, Langchain, Tensorflow, Keras, Pytorch, Computer Vision, Large Language Model (LLM), Vector Database, Vector Embeddings, scikit-learn, Feature Engineering, Statistics, SQL Database, Data Analysis, Data Visualization, Web Development, Django/Flask, Code Optimization, Research (R&D), Mathematics, Brainstorming, Professionalism, Collaboration, Leadership and TeamWork.

PROFESSIONAL EXPERIENCE

TURABIT LLC   AHMEDABAD, GUJARAT/ INDIA
Junior NLP Engineer   *December 2024 – Present*

Automation of IT Operations using Agentic AI approach :
- Worked on Production level RAG System.
- Building Chatbot that can perform various IT Operations backed by Agentic AI using Langgraph framework.

PROPLEGIT GLOBAL PVT LTD   AHMEDABAD, GUJARAT/ INDIA
Python AI-ML intern   *September 2022 – September 2024*

Regional Language text based Image Classification :
- Researched and Developed Deep Learning Model by Fine-tuning EffiecientNet-B4 CNN Architecture on custom dataset for Newspaper's Images detection using Transfer Learning techniques.
- Improved accuracy from 55% of previous method to 99.30% and reduced time complexity by almost 85-90%.
- Increased work efficiency of the data management team by almost 80% with this image classification model.

Captcha Image Text Prediction :
- Developed Captcha Text Prediction using Tensorflow, Keras with custom loss function on CNN+RNN Architecture. Decreased automation processing time by 80%. Achieved accuracy of 99% plus.

Automation and Development :
- Worked on OpenCV image processing with OCR techniques (Pytesseract engine + EasyOCR) to improve captcha image quality by 2 times.
- Build web scraping scripts with BeautifulSoup and Selenium libraries in Python to extract data from websites that results in reducing 70% of workload on the data processing team.
- Built Flask APIs to make automation python scripts accessible to the data management team.

BRAINY BEAMS PVT LTD   AHMEDABAD, GUJARAT/ INDIA
Data Science Intern   *June 2022 – July 2022*

- Build a sentiment analysis model and achieved 97% accuracy.
- Basic movie recommender system with cosine similarity search.
- Implemented NLP techniques such as text classification and sentiment analysis to classify textual data into different categories with 87% accurate results.
- Analyzed the performance of different algorithms by applying metrics such as precision, recall, r2 score, etc.

PROJECTS

Realtime VoiceBot Assistant with RAG Functionality (Generative AI)   *July 2024-present*
- Get real time(latency<8sec) conversation regarding pdf with AI Powered VoiceBot.
- Technologies used : LLM Chain, Gemini API calling, Retrieval Augmented Generation (RAG) , Deepgram Text to speech and speech to text API, PINECONE Vector Database, GoogleGenAI Embeddings, Langchain, Async Programming basics.

Earthquake Magnitude & Location Predictor (Machine Learning)   *May 2024-present*
- Performed EDA on SOCR Earthquake dataset and found feature importance of each column and other insights of dataset.
- Created a Model to predict earthquake magnitude and Location coordinates using historical seismic data.
- Performed GridSearchCV to find the best possible algorithm to model the data.
- Implemented XGBoost Library to get the best prediction and R2 Score. Improved r2 score from 0.19 to 0.60 in such a right skewed data by hyperparameter tuning using grid searchCV.

EDUCATION & OTHER

ADITYA SILVER OAK INSTITUTE OF TECHNOLOGY   *2020-2024*
Bachelor of Technology (B.Tech) in COMPUTER SCIENCE

- Subjects : Operating Systems, Data Structures and Algorithms, Object Oriented Programming, Mathematics, etc.
- CGPA : 8.89

SMT RAKVB SCIENCE SCHOOL   *2018-2020*
Physics, Chemistry, Mathematics

LANGUAGES: English, Hindi, Gujarati
OTHER EDUCATION: Machine Learning and Deep Learning course from CampusX Data Science mentorship program.
INTERESTS: History, Astronomy, Physics, Space, Economics, Geopolitics, Cricket, etc.