






Hiren Thakkar

PERSONAL INFORMATION

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SUMMARY

As a Data Science Master's student, I am deeply passionate about harnessing the power of data to address real-world challenges, with a particular enthusiasm for generative AI. My expertise in machine learning, deep learning, and natural language processing is evident through my successful projects, including precise car price prediction and a chatbot with a remarkable 96% accuracy rate. I have further extended my skills by developing human-centric generative AI using Large Language Models (LLM). Proficient in Python, TensorFlow, and PyTorch, I am now eager to leverage my knowledge in a Junior Data Scientist role within a dynamic, collaborative environment. I am excited to explore the endless potential of generative AI in creating innovative solutions.

PROJECTS

VITCHAT: Admission Chatbot Enhancement Support

May 2023

VIT-AP

- Recognized a critical need to address limited staff capacity for handling admission queries at VITAP.
- Spearheaded the creation of an intelligent chatbot to provide comprehensive admission-related information for VITAP applicants.
- Leveraged Spacy NLP to achieve an outstanding 96% accuracy rate using multinomial Naive Bayes, and seamlessly designed and implemented an intuitive UI with a Flask backend for enhanced user interaction.
- Enhanced the efficiency of the admission process, resulting in more satisfied prospective students.

iCAP: Image Caption Generator

July 2023

VIT-AP

- Collaborated with a lean, three-person team to create a cutting-edge Image Caption Generator, blending Computer Vision and Natural Language Processing.
- My specific role involved engineering the Encoder-Decoder Architecture, seamlessly combining CNN and LSTM models, which contributed to our team's success in delivering a robust Image Caption Generator.
- In parallel, team members skillfully integrated the InceptionV3 model for image feature extraction and incorporated pre-trained Glove embeddings to enhance context. Our combined efforts enabled the deployment of highly effective caption-generation strategies.
- The resulting collaborative achievement holds significant potential to benefit visually impaired individuals, showcasing the compelling outcomes of interdisciplinary technology merging with advanced CNN and LSTM models.

Car Price Prediction

Dec 2022

VIT-AP

- Initiated a car price prediction project using Kaggle data to develop a precise pricing model.
- Preprocessed the dataset using Pandas for cleaning and feature engineering, performed Exploratory Data Analysis (EDA) with Matplotlib and Seaborn to gain insights, and experimented with machine learning algorithms, including Linear Regression, Decision Tree, and Random Forest, for prediction.
- Meticulously cleaned and structured the data, conducted feature engineering, and created informative visualizations during EDA. Implemented and fine-tuned Linear Regression, Decision Tree, and Random Forest models for car price prediction.
- Achieved a successful car price prediction model with Random Forest outperforming other algorithms, showcasing expertise in data preprocessing, EDA, and machine learning model selection.

SKILL

- Data Manipulation
- Data Visualization
- Storytelling
- Python
- Prompt Engineering

- SQL
- R
- Machine Learning
- Deep Learning
- Flask

- NLP
- Computer Vision
- Git
- Presentation Skills
- Generative AI

- Teamwork
 - Problem Solving
 - Patience
 - Communication
 - Statistics
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CERTIFICATION

- Proficiency In Python Technology
 - Internship Completion
 - Python for Data Science and Machine Learning Bootcamp
 - Data Analytics and Visualization Virtual Experience From Accenture
 - Generative AI with Large Language Models
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EDUCATION

Vellore Institute Technology University (AP)
Data Science | Master of Science - MS

Sep 2022- Present

KSV University(Gandhinagar)
Bachelor of Computer Application (B.C.A)

June 2018- May 2021

LANGUAGE PROFICIENCY

- English
 - Hindi
 - Gujarati
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WORK EXPERIENCE

Internship Web Designer
V.Y Tech Enterpris

Sep 2020- Jan 2021

- Created sensitive and engaging landing pages, optimizing their locations for maximum performance and scalability.
- Integrated CMS client programs and data streams into websites to enhance functionality.
- Employed industry standards for business and design throughout the web development process.
- Conducted thorough testing to evaluate the website's performance and functionality.
- Collaborated with back-end programmers to ensure the complete implementation of website and software logic.
- Provided internal and external customer support during the website's creation and launch.

Freelance Web Developer

Jan 2021- Aug 2022

- Developed and managed websites for multiple clients using diverse programming languages and web development frameworks.
- Participated in projects related to social media, content management systems, and e-commerce.
- Collaborated closely with clients to understand their requirements, ensuring timely and budget-friendly project delivery.