Resume

Name: Bhavesh Padharia

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Education:

1. Bachelor of Engineering (B.E.) in Computer Science, GTU University
2. Diploma in Computer Engineering, GTU University
3. SSC 10th Gujarat Board

	Soft Skills	Technical Skills
1	Problem-Solving	ML, DL, AI, NLP
2	Project Management	Large Language Models (LLMs), HuggingFace, OpenAI, Gemini
3	Client Communication	Data Analysis and Visualization (Tableau,PowerBI)
4	Cross-Functional Collaboration	Python (including libraries like NumPy,Pandas, and scikit-learn)
5	Analytical Thinking	Cloud Tech: Azure, AWS,GCP, Databricks
6	Leadership	Data Engineering & ETL
7	Continuous Learning	OCR & Automation Solutions
8		Domain-Specific Experiecne: E-Commerce, Agriculture, SupplyChain, BFSI,FMCG.
9		Model Optimization & Deployment
10		SQL,SQL Server and MongoDB, Vector Database
11		Predictive Modeling, Time Series Forecasting

Professional Experience

> **Value Chain Solutions (India) Pvt. Ltd – Ahmedabad**

Senior Data Scientist | Feb 2023 - Present (Dedicated employee with BASF Global Team, Germany)

SGI Industrialization Projects:

- Resolved and debugged code issues in country-specific descriptive models for distributor and retailer datasets using Databricks notebooks.
- Designed and developed descriptive models from scratch for new countries, focusing on distributor and retailer datasets in Databricks.
- Deployed all developed models to the Azure platform, ensuring seamless integration and scalability.

CX Scorecard Projects:

- Performed comprehensive data integration across multiple datasets to create unified and consistent data sources.
- Conducted detailed exploratory data analysis (EDA) on agricultural datasets, uncovering insights and identifying trends.
- Developed a sentiment analysis pipeline to analyze customer feedback and comments in the datasets, enabling actionable insights.
- Built a recommendation system for agricultural products to suggest complementary products based on customer purchasing patterns, such as "if a user buys Product A, they are likely to buy Product B."

AI CRIS Projects:

- Conducted in-depth debugging to identify and resolve code issues, enhancing the platform's stability and functionality.
- Performed research to identify and implement improvements to the AI CRIS platform, driving better performance and user experience.

Chatbot Development Using LLMs and HuggingFace:

- Directed the development of an intelligent chatbot capable of extracting and delivering contextually relevant information from PDF files in response to user queries.
- Deployed natural language understanding (NLU) models to accurately interpret user questions and provide precise, actionable responses.

Inquiry Insight (Information Extraction Workflow):

- Led the design and implementation of workflows for extracting information from diverse formats such as PDFs and Word documents.
- Developed context and prompts for data processing using an open-source transformer model.
- Integrated the model into a pipeline for seamless information extraction, enabling context-based responses from the processed data.

Smart Scan (NLP and OCR-Powered Solution):

- Led a team to develop an NLP-powered smart scanning tool for automated data extraction from Excel, PDFs, images, and CSVs.
- Implemented OCR technology for recognizing invoice sections without requiring user intervention or manual mapping.
- Ensured seamless data extraction and storage in formats compatible with existing applications, enhancing operational efficiency.

Product Bulk Scanning (Data Matrix and QR Code Scanning):

- Designed and implemented Python scripts to efficiently scan multiple Data Matrix and QR codes using a dedicated scanner application.
- Supervised quality assurance for the scanning process, promptly addressing and resolving emerging issues to ensure operational accuracy.

Deep Learning for Crop Stage Forecasting:

- Conducted research on crop stages of agricultural plants and fetched weather data using APIs.
- Developed an end-to-end deep learning model to forecast crop stages, improving predictive capabilities for agricultural planning.

Image Color Identification:

- Built a Python-based solution for precise color identification in images, addressing use cases in quality control and design analysis.

Model Optimization and Deployment:

- Spearheaded the optimization and deployment of model code using OSI Pi Vision tools for the Paper industry.
- Monitored model performance continuously, generating detailed reports and incorporating client feedback to refine result.

➢ Deets Digital Pvt Ltd – Ahmedabad

Data Scientist | June 2022 – Jan 2023

- Developed a Python-based Instagram scraping script using Selenium to gather detailed information from both public and private accounts. This script extracted data such as usernames, descriptions, bios, post likes, comments, and shares, enabling comprehensive analytics and insights.
- Designed a custom theme for a Power BI dashboard tailored specifically for diagnostic clients. This theme enhanced the visual appeal and user experience of the dashboard, ensuring that key insights were presented effectively and intuitively.
- Conducted extensive data analysis on datasets from the Banking, Financial Services, and Insurance (BFSI) as well as Fast-Moving Consumer Goods (FMCG) sectors. This analysis involved identifying trends, patterns, and actionable insights to support strategic decision-making.
- Developed a machine learning (ML) model for underwriting in the finance sector. This model utilized advanced algorithms to assess risk factors and optimize the underwriting process, enhancing efficiency and accuracy in financial operations.

➢ Shivohm Softech Pvt Ltd – Gandhinagar

Data Scientist | Jan 2021 – May 2022

- Conducted comprehensive data preprocessing and analysis within the Supply Chain domain, focusing on optimizing operations and decision-making processes.
- Developed and deployed a sophisticated time series forecasting model tailored specifically for manufacturing companies. This initiative significantly enhanced production planning accuracy and efficiency.
- Designed and implemented data extraction tools using Python to streamline data acquisition processes. Integrated extracted data seamlessly into client software systems for real-time insights.
- Managed Extract, Transform, Load (ETL) processes using SQL Server, ensuring robust and efficient data integration and transformation workflows.
- Leveraged Tableau to build, customize, and publish interactive reports, visualizations, and dashboards. These resources provided stakeholders with actionable insights and facilitated data-driven decision-making across the organization.

➢ Garuda Advertising Pvt Ltd – Ahmedabad

Data Scientist | June 2017 – Jan 2021

- Specialized in Social Media Analytics within the E-Commerce domain, focusing on leveraging data-driven insights to enhance business strategies and customer engagement.
- Analyzed diverse datasets to develop and deploy end-to-end machine learning (ML) models tailored for specific business solutions within the E-Commerce sector. This involved every stage of model development, from data preprocessing and feature engineering to model training, evaluation, and deployment.
- Conducted rigorous feature selection and extraction to optimize ML model performance and interpretability. This process involved identifying and prioritizing relevant features to enhance predictive accuracy and facilitate meaningful business insights.
- Utilized Tableau to create comprehensive reports and visualizations, extracting actionable insights from data analysis. These reports effectively communicated findings to stakeholders and supported data-driven decision-making processes.
- Employed Python for web crawling and data collection, enhancing data engineering capabilities by retrieving relevant information from web sources. This data was instrumental in enriching datasets and supporting analytical initiatives within the E-Commerce domain.