Bhavesh Padharia

Senior Data Scientist

Results-oriented Data Science leader with 7+ years of experience in leveraging advanced analytics, machine learning, and deep learning to drive business growth and innovation. Seeking a strategic role to architect and lead high-performing data science teams in developing and deploying cutting-edge AI solutions. Proven ability to optimize business processes, extract actionable insights from complex data, and deliver measurable impact across diverse industries. Expertise in generative AI, natural language processing, and predictive modeling.

Contact

Email
padharia.bhavesh06@gmail.com

LinkedIn
in/bhaveshpadharia

Education

2017
Bachelor of Engineering (B.E.) in ComputerScience

Gujarat Technological University (GTU)

Soft Skills

- Communications
- Teamwork
- Problem solving
- Initiative
- Attention to detail

Technical Skills

- ML, DL, AI, NLP
- Large Language Models (LLMs), HuggingFace, OpenAI, Gemini
- Data Analysis and Visualization (Tableau,PowerBI)
- Python (including libraries like NumPy,Pandas, and scikit-learn)
- SQL and Database Management
- Time Series Forecasting
- Model Development & Deployment
- ETL Process

Certification

- Microsoft: Azure Fundamental
- Responsible AI: AI Principles with Google Cloud
- Generative AI Fundamental
- Machine Learning A-Z: AI,
- Python & R + ChatGPT

Experience

Value Chain Solutions (India) Pvt. Ltd - Ahmedabad   **Feb 23 - Present**

Senior Data Scientist

Project Title: AI Cris Chatbot Document Question and Answer
- Led a dedicated team to **develop a chatbot** for an agricultural domain client, focusing on **document question and answer functionality**
- Directed the **extraction of data from PDFs and PPT files**, ensuring it was efficiently stored within a **MongoDB database**
- Oversaw the development and **optimization of the chatbot using the RAG process for performance evaluation**, leveraging a combination of **OpenAI's ChatGPT-4 model, open-source Ollama models, and HuggingFace models** for enhanced chatbot functionality

Project Title: Smart Scan
- Spearheaded the development of an **NLP-powered smart scan system** for data extraction from diverse formats (**PDFs, images, CSVs**) with a skilled team
- Implemented **OCR technology** for automatic invoice section recognition, eliminating manual user intervention
- Led the team in building a **data extraction pipeline** that stores data in a format compatible with existing applications

Project Title: Inquiry Insight
- Directed a team in developing a system for **information extraction** from various document formats (**text, PDF, image**)
- Collaborated with the team to develop **prompts and contexts** for efficient data processing
- Integrated an **open-source transformer model** for information extraction into the data processing pipeline, ensuring seamless operation

Project Title: Product Bulk Scanning
- Designed and implemented **Python scripts** with the team to efficiently scan multiple **Data Matrix and QR codes** using a dedicated scanner application
- Ensured **accuracy and quality in the scanning process**, troubleshooting any emerging issues collaboratively

Project Title: Deep Learning for Crop Stage Forecasting
- Led research on **agricultural plant crop stages** with a focused team
- Developed an **end-to-end deep learning model** to forecast crop stages using **weather data obtained via API**, guiding the team through each phase

Project Title: Image Color Identification
- Guided the development of a **Python script for precise color identification** in images, applicable for **quality control and design analysis**, working closely with team members

Project Title: Model Optimization and Deployment
- Played a key leadership role in **refining and deploying model code using OSI Pi Vision tools**, ensuring alignment with client requirements in the paper industry
- Monitored models for **optimal performance**, generating detailed reports for clients and actively incorporating their feedback, collaborating with the team to continuously improve the process

Deets Digital Pvt Ltd - Ahmedabad   JUNE 22 – Jan 23

Data Scientist

- **Developed** a **Python-based Instagram scraping script** using **Selenium** to gather detailed information (**usernames, descriptions, bios, post engagement metrics**) from public and private accounts, enabling comprehensive **social media analytics**.
- **Designed** a custom **Power BI dashboard theme** for diagnostic clients, enhancing the **visual appeal** and **user experience** for clear and intuitive presentation of key insights.
- **Conducted in-depth data analysis** on **BFSI** and **FMCG datasets** to identify **trends, patterns**, and actionable insights for **strategic decision-making**.
- **Developed** a **machine learning model** for **underwriting in the finance sector**, leveraging **advanced algorithms** to optimize **risk assessment** and improve efficiency and accuracy in **financial operations**.

Shivohm Softech Pvt Ltd - Gandhinagar
                                                                             Jan 21 – May 22

Data Scientist

- **Data Preprocessing and Analysis**: Conducted **in-depth data analysis** to identify **optimization opportunities** for **operations** and **decision-making processes**.
- **Time Series Forecasting**: Developed and deployed a sophisticated **time series forecasting model** specifically for **manufacturing companies**, significantly improving **production planning accuracy** and **efficiency**.
- **Data Extraction Automation**: Designed and implemented **Python tools** to streamline **data acquisition** and seamlessly integrate it with **client software systems** for **real-time insights**.
- **ETL Pipeline Management**: Utilized **SQL Server** to manage robust and efficient **Extract, Transform, Load (ETL) processes** for **data integration** and **transformation**.
- **Data Visualization**: Leveraged **Tableau** to build, customize, and publish **interactive reports, visualizations, and dashboards**, empowering stakeholders with **actionable insights** and driving **data-driven decision-making**.

Garuda Advertising Pvt Ltd   - Ahmedabad   JUN 17 – JAN 21

Data Scientist

- **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**.