

BRIJESH KAPADIYA

Data Scientist

Mathematics graduate with a strong analytical foundation and proven experience in building data-driven solutions. Passionate about leveraging advanced AI technologies to solve complex problems and deliver actionable insights



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<https://github.com/b-1129>



<https://sites.google.com/view/brijesh-ds-portfolio>

Surat, India

Experience

Data Science and Analytics

Potenza Global Solutions (2 Years & 1 Month)

PROJECTS (ML, DL, GenAI, Data Analysis)

- **Wine Quality Prediction:** Developed a **machine learning model** for wine quality prediction using **modular coding** and **tracked experiments** with **MLflow** via **DagsHub**. **Deployed** the model on **AWS**, **containerized** the application using **Docker**, and built an interactive web interface with **Flask**.
- **Text-Summarizer-NLP-Project:** Developed and deployed an **NLP-based text summarization** application on **AWS**, with **modular coding architecture**. Built the **web interface** using **FastAPI** and containerized the application using **Docker** for efficient deployment.
- **Supervisor multi-agent workflow:** Built a multi-agent workflow using **LangGraph** and **LangChain**, integrating agents (Supervisor, Researcher, Enhancer, Coder, Validator) for autonomous task execution. Leveraged **OpenAI GPT**, **TavilySearchResults**, and **PythonREPLTool** within a ReAct-style graph using **StateGraph** and **Pydantic** for structured, message-driven coordination.
- **Nutritionist Generative AI Doctor:** Built an AI tool using **Streamlit**, **Google Generative AI**, **LangChain**, **Chromadb**, and **PyPDF2** to analyze food images, identify dishes, and generate **detailed nutritional profiles** with calorie counts, enabling informed **dietary decisions**.
- **Power BI dashboards: Sir Ratan Tata Tribute:** Displays **real-time stock prices**, company data, and **achievements** sourced directly from the web. **IPL 2024 Dashboard:** Provides **live match updates** and key insights, leveraging real-time **data from web sources**.

EDUCATION

• Bachelors of Science (Mathematics)

TECHNICAL STACK

- **Data Science/Machine Learning/Deep Learning /Generative AI**
Python, Data Visualization, Supervised Learning, Unsupervised Learning, EDA, Feature Engineering, Feature Selection & Extraction
ANN, CNN, RNN, LLM Models etc.
- **Mathematics for ML & DL**
Linear Algebra, Probability, Statistics, Calculus, Matrices
- **Python Packages and Frameworks**
Scikit-Learn, TensorFlow, Keras, NumPy, Pandas, Beautiful Soup, LangChain, LangGraph
- **Data Analysis & Visualization**
Excel, Matplotlib, Seaborn, PowerBI
- **MLops Tools**
DVC, MLFlow, CI/CD
- **Web Development**
Streamlit, Fast API
- **Programming Language**
Python, SQL
- **Databases**
MySQL, MongoDB
- **Cloud Deployment and Containers**
AWS, Docker

SOFT SKILLS

- Fast Learner
- Communication
- Problem Solving
- Attention to Detail
- Leadership
- Collaboration
- Time Management
- Adaptability