

# Dhananjay Gaikwad

Data Analyst

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Thane

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## SUMMARY

As a data science enthusiast, I'm eager for hands-on experience to sharpen my skills. With efficient time Management and agility, I consistently meet and exceed deadlines. Ready to make impactful contributions, I'm eager to tackle challenges head-on.

## WORK EXPERIENCE

### Business Analyst

#### GeBBs Healthcare Solutions, April 2023 – Nov 2024

- Analyzing large datasets to extract valuable insights and trends, providing actionable recommendations.
- Developing and maintaining automated processes using SQL queries in SSMS for ETL and exploratory data analysis with Python.
- Building automations in Python using NumPy, Pandas, Seaborn and Matplotlib for efficient data manipulation and analysis.
- Designing and implementing data visualization dashboards and reports in Microsoft Power BI.
- Collaborating with cross-functional teams to define project objectives, deliver data-driven solutions, and improve data quality and efficiency.

### Production Planning Engineer

#### ASMI Engineering Works, Jan 2020 – March 2023

- **Strategically planned** and scheduled production tasks, ensuring 100% on-time order fulfilment.
- Designed **Power BI dashboards** to track monthly production data, improving workflow efficiency by **20%**.
- Utilized **Python for data analysis**, optimizing inventory management and reducing costs by **15%**.
- Developed automated **Power BI reports**, streamlining production performance analysis and reporting.

## IT PROJECTS

### Voice-Driven GenAI Assistant

- Developed an interactive **GenAI Voice Assistant** using **LangChain** and **Groq's Qwen LLM** with **Streamlit** for the user interface.
- Integrated **Google Speech Recognition** for real-time speech-to-text transcription and **pyttsx3** for text-to-speech synthesis, enabling seamless voice interactions.
- Implemented **multi-turn conversation** support with dynamic management of **audio files** for efficient memory usage and cleanup.
- Stored **conversation history** in **text format** for transparency and continuity across interactions.

### Chatbot using LangChain and Ollama

- Built an **AI-powered chatbot** using **LangChain**, **Ollama (Llama2)** and **Streamlit** for real-time query responses.
- Implemented **LLM integration** with **optimized prompt engineering** to enhance response accuracy and relevance.
- Designed an **interactive UI with Streamlit**, enabling seamless user interaction and chatbot communication.

- Integrated **LangChain Tracing** to monitor and improve chatbot performance and debugging efficiency.

## **Multilingual Translation App**

- Developed a Flask-based multilingual translation app using Hugging Face Transformers, enabling seamless translation across multiple languages.
- Used **facebook/mbart-large-50-many-to-many-mmt** model with English as a bridge for not well trained language pairs.
- Built a user-friendly web interface for real-time translations.

## **SKILLS**

- **Python:** Numpy, Pandas, Scikit-Learn, Flask, TensorFlow, PyTorch, Seaborn, Matplotlib
- **SQL** (MySQL, MSSQL)
- **Power BI:** Data Connection, Data Transformation, Data Modelling, Data Visualization, Data Reports, DAX

## **Artificial intelligence (AI)**

- **Machine Learning**
  - a) **Supervised Learning Algorithms:** Linear Regression, Logistic Regression, Decision Tree, SVM, KNN, Bagging, Boosting, Random Forest
  - b) **Unsupervised Learning Algorithms:** K-means Clustering, Hierarchical Clustering, PCA
- **Deep Learning:** Artificial Neural Network (ANN), Recurrent Neural Network (RNN), Convolutional Neural Network (CNN), Natural Language Processing (NLP), BERT, Transformers, LSTM, GAN, Generative AI

## **CERTIFICATIONS**

<b>Python</b>	Python for Data Science – IBM Python Programming – I.T.VEDANT
<b>SQL</b>	Fundamental with SQL – I.T.VEDANT
<b>ML</b>	Machine Learning With Python– I.T.VEDANT
<b>DL</b>	Deep Learning & NLP - I.T.VEDANT Computer Vision - I.T.VEDANT

## **PROFESSIONAL COURSE**

### **Data Science**

**I.T. Vedant Pvt Ltd, Thane**

## **EDUCATIONAL QUALIFICATION**

### **B.E. Mechanical Engineer**

**Mumbai University**