

# Bhagwati Narayan

✉ [chauveharsh@gmail.com](mailto:chauveharsh@gmail.com) | 📞 9565744745 | in  
[linkedin.com/in/bhagwati-narayan-2a9552151/](https://linkedin.com/in/bhagwati-narayan-2a9552151/)

Passionate Python Developer and NLP Engineer with 3+ years of experience in Preprocessing, developing, and Building robust machine learning models and Gen AI Solutions. Proficient in Python and its extensive libraries to create efficient and scalable solutions for complex data challenges. Committed to continuous learning and staying updated with the latest advancements in the field of Data Science and AI.

## EXPERIENCE

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### Infosys Limited , Gen AI Developer Semantic Bot Assistant

July 2024 – Present

- Building an AI assistant(Flexa) to help users in enterprise level solutions.
- Designed multiple task to be fulfilled based on user input for contract management.Flow of task is carried out based on the evaluation rules predefined using python rule engines.Invoking API after proper validation techniques and creating responses based on mapping with user intent in requests.
- Utilizing Semantic Kernel as base framework for all the prompt and bot related configurations.AzureOpenAI used for extending all the LLM related support.
- Libraries : Pandas, NLTK, Sematic kernel, AzureOpenAI, Python Rules Engine
- Tools : Visual Studio Code , Google Sheets , Git

### Tata Consultancy Services , Python Developer Chatbot Assistant

Jan 2021 – June 2024

- Reduced Courier Staff efforts and time to guide their colleagues for assisting during their regular customer support services.
- Leveraged NLP libraries such as spaCy, NLTK for basic text feature engineering and Gen Ai framwork langchain for building bot using OpenAI LLM.
- Used OpenAI Embeddings for utilizing custom knowledge database and also Chromadb for vectorstores alongwith creating RAG pipeline for particular process.
- Libraries : Pandas ,NLTK , Spacy, Langchain , GPT-4, RAG , Chroma , FastAPI , streamlit
- Tools : Jupyter Notebook , Github

### CEP Macro Automation

- Automating data extraction, transformation, and reporting tasks to save time and reduce errors for tracking of retails store reports.
- Built an end to end solution for retail stores of an organization to perform data manipulation with multiple excel workbooks and Integrating with different applications.
- Designed a basic UI for functional team to go through process outcomes of different section with visual as well as data reports.
- Libraries : Pandas, Numpy, xlwings ,win32,smtp
- Tools : Visual Studio Code, Jupyter Notebook, Git , Microsoft excel

## SKILLS

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**Domains:** Data Analytics, Data Science, Machine Learning, Deep Learning, NLP, AI

**Programming Language:** Python , SQL

**Libraries:** Pandas, Numpy, Scikit-Learn, NLTK, Spacy, Keras, Scipy, Seaborn, Matplotlib

**Gen.AI and NLP:** LLM, RAG, LangChain, Document Classification, semantic kernel

**Database:** SQL, MongoDB

**Vector Database:** FAISS, Chromadb, Pinecone

**Tools:** Tableau, Jupyter Notebook, Pycharm, Visual Studio, SpreadSheets

**version Control:** Git, Github

## PROJECTS

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### Text Summary Creator

- Utilized libraries such as NLTK, SpaCy for text processing and text feature engineering.
- Employed vectorstores for storing embeddings for user provided custom database by generating embeddings through OpenAI LLM.
- Used streamlit for designing UI for user to put text as input and to get summary as output.
- Langserve is used for running server to host chains as APIs.
- Libraries : Pandas, Numpy, NLTK, SpaCy, Scikit-learn, Langchain, Langserve, Chroma, OpenAI, FastApi
- Tools : Visual Studio code, Jupyter Notebook , Git

## EDUCATION

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**Madhav Institute of Technology and Science**  
B.E. in Electronics Engineering

**Gwalior, M.P.**  
2020

## CERTIFICATION & AWARDS

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1. Google Data Analytics Professional Certificate
2. Machine Learning (Coursera)
3. Deep Learning Specialization (Coursera)