Gaurav Pandey

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EDUCATION

Graphic Era Hill University **2019 – 2023**
Bachelor of Technology in Computer Science and Engineering (CSE) *CGPA: 8.68*

BLM Academy **2018 – 2019**
Intermediate *Percentage: 63.6%*

White Hall School **2016 – 2017**
Matriculation *CGPA: 8.0*

WORK EXPERIENCE

Impressico Business Solutions **Noida**
Trainee Engineer *January 2024 – Present*
- **Tech Stack:** Python, Flask, OpenAI, PostgreSQL, PineconeDB, Langchain, Langgraph, Autogen, Docker, GitHub
- Designed and developed chatbot using Generative AI, LLMs, RAG, OpenAI, Langchain, and HuggingFace, with a data pipeline to store, clean, preprocess, and create embeddings for efficient query processing.
- Developed a Product Recommendation System with an Amazon electronics dataset stored in PostgreSQL, integrating SQL and semantic search engines for data retrieval and passing results to an LLM for personalized recommendations.

LTIMindtree Limited **Remote**
Internship – Graduate Engineer Trainee (certificate) *February 2023 – May 2023*
- Gained practical experience and insights into IT work and industry through the internship.
- Worked on Java and C# modules, including study materials and related tasks.
- Completed assigned activities on time based on study materials.

TECHNICAL SKILLS

Programming: Python
Databases: MySQL, PostgreSQL, PineconeDB
DevOps: AWS, Docker, Linux

Frameworks: Langchain, Langgraph, Autogen, Streamlit, Flask
Libraries/Tools: Numpy, Pandas, GitHub
Generative AI: LLMs, GPT Models, RAG, HuggingFace, OpenAI

PROJECTS

Impressico's Chatbot
- **Tech Stack:** Python, Flask, OpenAI, PostgreSQL, Langchain, HuggingFace
- Developed a personalized chatbot for the company, delivering tailored responses based on user queries and preferences.
- Processed and organized company data files, creating a pipeline to generate vector embeddings using HuggingFace models, and stored them in PostgreSQL for efficient retrieval.
- Implemented a query processing system where users input their queries, and the chatbot provides accurate, context-aware responses based on the stored embeddings.
- Deployed the solution using Flask for backend handling, ensuring a responsive, interactive user experience.

Retail Concierge Services
- **Tech Stack:** Python, Flask, OpenAI, PostgreSQL, Langchain, HuggingFace, PGvector
- Collected and stored Amazon electronics product data in PostgreSQL for efficient retrieval.
- Developed a Flask backend to handle user queries and integrate the product recommendation system.
- Implemented SQL-based and semantic search engines with vector embeddings and metadata filtering.
- Converted user queries to SQL using LLM, ran queries on the database, and used semantic search for advanced filtering.
- Combined results from both search engines and passed them to an LLM for final product recommendations.
- Incorporated sentiment analysis to classify reviews as positive, negative, or neutral for more personalized recommendations.
- Utilized structured and unstructured data with an advanced RAG (Retrieval-Augmented Generation) approach for comprehensive recommendations.

ACHIEVEMENTS AND RESPONSIBILITIES

- **Adobe UX Foundation Learning Journey:** Completed the learning journey in July 2021. - (certificate)
- **CodeKaze Challenge 2023:** National rank 1616 and Graduation Year rank 272 by Coding Ninjas. - (certificate)
- **CodeKaze Challenge 2022:** National rank 3106 by Coding Ninjas. - (certificate)
- **Codegoda Challenge 2022:** Global rank 505 by Agoda. - (certificate)
- **Digital Marketing:** Completed "The Fundamentals of Digital Marketing" from Google Digital Garage in June 2022. - (certificate)
- **Nation-Wide Financial Markets Quiz Contest 2021-22:** Participated in the contest. - (certificate)
- **Coding Contests:** Participated in various coding contests on platforms like HackerRank, HackerEarth, CodeChef, etc.
- **Badminton:** Played at the District Level, won the Runner-up prize, and qualified for the State Level in Haridwar.