Aadarsh Lalchandani
AI Engineer

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Summary

AI Engineer with over 3 years of experience delivering innovative solutions in machine learning and natural language processing. I excel at optimizing processes to solve complex problems effectively and have a proven track record of developing scalable software solutions that meet business needs. My experience includes collaborating with diverse teams to achieve project goals and improve overall efficiency. I am dedicated to keeping up with the latest technologies to build solutions that make a real difference.

Skills

Languages	Python, Shell Script, Markdown, SQL, Java, GoLang, C#
Tools and Frameworks	FastAPI, LangChain, Llama-Index, Ollama, HuggingFace, Vector Databases, Nvidia CUDA, BERT, sk-learn, OpenCV, PyTorch, MySQL
Developer Tools	VS Code, JetBrains IDE, MS SQL Server, MySQL Workbench

Technical Experience

NLP Engineer — 08 2022 — **Present**
Ipsator Analytics Private Limited — *Bangalore, Karnataka*
- Finetuned Custom LLMs and BERT based models for different use cases.
- Developed various products leveraging LLMs, Vector Databases, RAG Pipelines, Speech Synthesis, and Image Processing for better product performance.
- Leading a team of AI/ML engineers to deliver multiple projects simultaneously, with a focus on efficiency and innovation.

AI Engineer — 09 2021 — 08 2022
Higheredd — *Ludhiana, Punjab*
- Designed and developed a Recommendation System to enhance the product quality.
- Collected and analysed various kinds of Data and conducted EDA.
- Conducted Transfer Learning on NLP Algorithms and developed insightful models.
- Escalated the company's growth potential by 70% by providing suggestions in the Product's UI and UX.

Projects Instructor — 07 2021 — 09 2021
College Finder — *Jamshedpur, Jharkhand*
- Designed the projects Curriculum for the Data Science Course in the EdTech Venture.
- Trained and Implemented Python Projects with international students.
- Students whom I trained landed in big Tech MNCs after completing the course successfully.

Projects

Speech-to-Speech Chatbot API
- A robot that can listen to your query, process it, and respond with a human-like voice.
- Designed the robot to function with OpenAI Whisper, ChatGPT API, and Text-to-Speech tools.
- The robot can retrieve and respond using custom knowledge provided to it via files with .txt, .pdf, .csv, and many more file types.

Text to Image Generation
- Deployed a Stable Diffusion Model on Google Cloud Platform as FastAPI.
- Implemented a WebApp that hits the API endpoints with the user's text input.
- Made the WebApp live on GitHub Pages.

Speech To Text ChatBot
- Trained a Multi-Layer Perceptron to classify the input class through Transfer Learning.
- Made own Dataset to train the required model.
- The model accuracy turned out to be 91%.
- Added a feature in which the user speaks and the bot would return relevant pieces of text.

Skill Recommendation Engine
- Applied Transfer Learning on NLP Algorithms like Word2Vec, USE, and BERT.
- Implemented an Ensemble approach to achieve a more generalized model.
- Model accuracy turned out to be 93%.

Education

Bachelor of Electronics and Communications Engineering, *Shree Swaminarayan Institute of Technology*	06, 2022
Higher Secondary Education in Science, *St. Xavier's High School, Hansol*	03, 2018
Matriculation, *St. Xavier's High School, Hansol*	04, 2016