Aadarsh Lalchandani
AI Engineer

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SUMMARY

Accomplished AI Engineer with extensive experience solving complex, real-world problems across various industries. Proficient in Python, with expertise in Machine Learning, Deep Learning, and Cloud Computing. Strong background in Natural Language Processing, Web Scraping, MySQL, Linux, Rest APIs, Model Deployment, SSH, and Git. Proven ability to contribute effectively to dynamic and innovative teams. Eager to apply skills and experience to drive results and innovation.

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, TensorFlow, Flask, 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*
- Designed and developed universal text search engine for IRCTC eCatering FoT App.
- Performed Analytics on the customer data and derived operational insights.
- Developed ML Classifiers using Ensemble Learning Techniques.
- Conducted R&D in LLM, Vector Databases, RAG Pipelines, Speech Synthesis, and Image Processing, developing and implementing solutions that improved product recommendations, and enhanced customer service efficiency.

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

A Humanoid Robot
- A robot that can listen to your query, process it, and respond with a human-like voice.
- Designed the robot to function with Speech-to-Text, ChatGPT, 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