Abhijith Ippa
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Career Objective:
Seeking a challenging role as a Data Scientist or Web/App developer at your company where I can leverage my extensive experience and expertise in PyTorch and TensorFlow to develop and fine-tune machine learning models. My objective is to harness the power of these frameworks to solve complex real-world problems and provide innovative solutions.

Professional Summary:
- **Over 2 years** of experience in **Machine Learning** and **Data Science,** with a proven track in **Tensorflow, Pytorch, Matplotlib, Pandas** and **Seaborn.**
- **Over 2 years** of experience in Created Websites and cross platform mobile application using **MERN stack , ReactNative, Firebase.**
- **Over 3 years** of experience in **Data Structures and Algorithms using C++ & Python,** lead to **5-star** in **Hackerank** and solved over **100+ problems** in **Leetcode**

Education:
- Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (2021-2025) Bachelor of Technology-CSE (Artificial Intelligence and Machine Learning); CGPA : 8.5
- Vison-40 College (Intermediate) ;2021; Percentage: 96.0%
- Sri Chaitanya Techno School (Schooling) ;2019; Percentage: 98.0%

Special Skills and Abilities:
- Programming Languages: C, C++, Java, Python, JavaScript
- Tensorflow and keras
- Tranformers-NLP
- Web Development (MERN stack)
- Mobile Development (React Native)
- Natural Language Processing
- Computer Vision
- Data Structures using C++

Machine Learning Projects:

1. **Creating core model of CHATGPT (Pytorch):**
   I based this project on Google's **"Attention is All You Need"** paper, the foundation for Transformers. I built **Transformers from scratch** without external libraries using a specialized dataset, the **"Tiny Shakespeare Dataset",** for text generation. **Pandas and Matplotlib** aided dataset preparation and analysis. A key highlight was manually creating **multi-head attention mechanisms**, showcasing in-depth model understanding and hands-on implementation.
2. **Medi_Papers-Helper:**
   Short-text classification is vital in natural language processing for tasks like sentiment analysis. The increasing volume of medical research papers, particularly **Randomized Controlled Trials (RCTs)**, challenges researchers in accessing necessary information. Although structured abstracts improve data access, more than half of RCT abstracts lack

structure. **Sentence-level classification** speeds up data retrieval and supports **summarization, extraction, and retrieval tasks**. The SKIM_LIT model is designed to address these issues in medical text classification.

3. **GYM AI:**
GYM AI is a project that I have worked on which utilizes on **Colutional Neural Networks** and **Pose Detection** to accurately count the number of repetitions performed during weightlifting exercises.

4. **Mask Recognition:**

Created **custom dataset** with and without masks, labeled using **mediapg**, and applied TensorFlow-based **object detection**. Additionally, developed and fine-tuned a mask recognition machine learning model.

Web-Development Projects:

5. **Ecommerce clothing website:**

Collaborated on a **MERN stack** e-commerce app, creating and integrating features like add to cart, buy now, wishlist, search, and sorting. Employed best practices for a smooth user experience, utilizing MongoDB for efficient data storage. Designed the database schema for improved data management and scalability. Established **RESTful APIs** for clear communication between front-end and back-end, defining endpoints and managing requests and responses.

Mobile-Development Projects:

6. **Gaming Tracker:**
I've recently completed the development of a cutting-edge game tracker app using **React Native**. This app stands out by providing an intuitive leaderboard feature, allowing users to effortlessly track player rankings based on their earned trophies in popular games like Clash Royale and PUBG.

Certifications:

1. Tensorflow Developer by Daniel Bourke
2. Python for DataScience and Machine Learning by Jose Portilla

Activities and Interests:

- I play guitar.
- Co-ordinator of 2-day Hackathon from Krithomedh.
- Volunteer in CSI and NSS.

Achievements/Accomplishments/Honors:

- Selected for level-2 KAT examination.
- Ranked atop 2% in TS state level Engineering Entrance Exam.
- Ranked atop in 4% in JEE MAINS.

Personal Profile:

- Date of Birth: 20/12/2003
- Gender: Male
- Languages: English, Hindi, Telugu
- LinkedIn profile: https://www.linkedin.com/in/abhijith-ippa-137901242/
- Github profile: https://github.com/AbhijithIppa

Declaration: I hereby declare that all the information given above is true and correct to the best of my knowledge.