Kirtan Lakhotia

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PROFESSIONAL EXPERIENCE

Python Backend Intern   Dec 2024 – Jan 2025
Softinator Techlabs
- Evaluated and debugged 100+ **Python** scripts and **SQL** queries generated by under-development **LLMs**.
- Debugged and corrected faulty code, enhancing code execution success rate from 65% to 95%.
- Provided feedback on faulty outputs, contributing to a 15% improvement in LLM-generated code quality.

Summer Research Intern   May 2024 – July 2024
SIRL Lab, IISER Bhopal
- Experimented with **4+ LLMs** to develop emotionally interactive models for healthcare.
- **Automated empathy dataset translation**, creating a 3,000+ interaction set and reducing manual work by 60%.
- Built a **similarity search** to filter accurate translations, boosting accurate translation identification by 40%.

ML Research Internship   Mar 2023 – Oct 2023
IIIT Nagpur
- 95% accuracy – Built an **ensemble model** (BERT, BiLSTM, CNN, GloVe, SVM), surpassing the benchmark.
- Researched sentiment analysis in textual data. Improved classification accuracy by 12% using hybrid architecture.
- Published a research paper that gained 250+ accesses in 3 months and received 1 citation. [(Link)](#)

EDUCATION

Institute of Engineering and Technology, DAVV   Indore, MP
Bachelor of Technology in Information Technology CGPA:- 8.47   *2022 - 2026*

Genius Planet Senior Secondary School   Itarsi, MP
XII (CBSE) – 90.8%   *2021 – 2022*

St Joseph's Convent Hr. Sec. School   Itarsi, MP
X (CBSE) – 84.4%   *2019 – 2020*

PROJECTS

ML/AI-based Sentiment Analysis of Social Media | *Python, BERT, GloVe, CNN, BiLSTM, SVM*
- Developed a **Python backend** for a team project implementing a hybrid model (BERT, GloVe, CNN, BiLSTM, SVM) trained for **multilingual sentiment analysis** achieving 93.6% accuracy.
- Integrated **APIs** and **web scraping** (Selenium, BeautifulSoup) for real-time analysis with 10-minute autorefresh.
- Generated 15+ **statistical graphs** and insights for social media reputation management.

Skin Burn Image Classification and First Aid Suggestion | *CNN, FastAPI, Web Integration* | [(Github Repo)](#)
- Implemented a CNN-based deep learning model to classify different degrees of burns with 87% accuracy.
- Integrated the model with a website using FastAPI for seamless access.
- Used Gemini for report generation and 30% better first-aid suggestions compared to static methods.

Saltify Website | *Node.js, MongoDB, AI Chatbot, Web Development* | [(Live link)](#)
- Developed in 7 phases using the **waterfall methodology**. Integrated an AI bot with the website to answer the general query about the product and know its benefits.
- Website for startup, backend **nodeJS** with **MongoDB** database.

TECHNICAL SKILLS

Competitive Coding: (C++, DSA) [LeetCode](#) (Top 8%) | [CodeChef](#) (3*)
Machine Learning: (Python, TensorFlow, PyTorch, Deep Learning, Hugging Face, LLMs)
Web Development: (JavaScript, Node.js, SQL, MongoDB, Streamlit, FastAPI)

ACHIEVEMENTS & AWARDS

Research Paper: Twitter Sentiment Analysis using an Ensemble of Multi-Channel Models Based on Machine Learning and Deep Learning Techniques [(Link)](#)
Research Paper: COVID-19 Twitter Sentiment Classification Using a Hybrid Deep Learning Model Based on Grid Search Methodology [(Link)](#)
Hackathon Winner: Capture the Flag category at Innothon Hackathon hosted by SKITM Colleges.