NEEL SHAH

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SUMMARY

Self-motivated data analyst with proven expertise in planning, applying machine learning, and probabilistic modeling algorithms to solve multifaceted real-world problems. Possess a deep understanding of critical concepts including machine learning, deep learning, reinforcement learning, computer vision, NLP, and inference systems. **Skilled at leveraging GPUs and supercomputer clusters** to execute complex experiments and implement innovative solutions. Published author with AI-based healthcare research paper in a renowned Scopus-indexed journal. Currently engaged in two active research projects focused on advancing the state-of-the-art in AI.

WORK EXPERIENCE

AI Developer, Charusat Learning And Development Club (CLDC)   May 2023 - June 2023

- I contributed to a team that developed a deep-learning-based **botnet detection** model. Additionally, we implemented an **emotion detection** model using deep learning, trained on both video and audio data.

SKILLS

Python	★★★★★	Java Script	★★★☆☆
Java	★★★★☆	Oracle SQL	★★★★☆
Data Analytics	★★★★☆	Mongo DB	★★★★☆
Machine Learning	★★★★☆	R Programming	★★★☆☆
Deep Learning	★★★★★	Linux	★★★★☆
Computer Vision	★★★★☆	Web Development	★★★★☆

PACKAGES

Tensorflow, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib, Open CV, Streamlit, Numba, Jupyter Notebook, Seaborn, Tmux, NodeJs, ReactJs, Collection Framework, wandb (Weights and Biases).

VERSION CONTROL

Git

EDUCATION

Bachelor of Artificial Intelligence And Machine Learning
Sep. 2022 - Oct. 2026

Charotar University of Science and Technology

- CGPA - 9.53
- Publication
  - Future of large language models and digital twins in precision healthcare: A symmetric literature review - Tuijin Jishu/Journal of Propulsion Technology
- Industry Certifications

- **IIT Kharagpur** - Data Structure and Algorithms Using Java.
- **DeepLearning.AI** - TensorFlow Developer, Machine Learning, Deep Learning, Generative AI with Large Language Models.
- **NVIDIA** - Fundamentals of Accelerated Computing with CUDA Python.
- **Oracle** - Oracle Certified Professional, Java SE 6 Programmer.
- **RedHat** - Fundamentals of Redhat Enterprise Linux 9.

PROJECTS

- Democratic Net – Defending Against Misinformation - Our platform employs a powerful deep learning model (**72.3% top-3 accuracy**) to analyze and combat false narratives that threaten democratic societies. Additionally, we **created our own dataset to train the model**.
- Veterinary Bacteria Classification - Instead of relying on **microscopic images**, our model achieves a **top-1 accuracy of 98.6%** among 24 classes using **regular images**. This approach enables usage in remote areas via mobile phones, eliminating the need for specialized technical equipment.

ADDITIONAL INFORMATION

- **Participations:**
  - Selected among 11 teams from all over India for the International **OpenACC Nvidia** Hackathon held at **IISc. Banglore**.
  - Selected for Charusat **SSIP Competition**.
  - Participated in **Accenture Innovation Challenge 2023**
  - Course Work - DSA, DAA, DBMS, Data Analytics, Python, R, Artificial Intelligence.

- **Languages:** English, Hindi, Gujarati (Native), German (Beginner, currently learning).
- **Volunteering: Coordinated** AI FOR ALL Meet-Up at Charusat University, **Source person** for web development using ReactJs a 2-day event organized by the **Computer Society Of India and IEEE**.