

NEEL SHAH

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SUMMARY

A self-motivated AI Researcher with proven expertise in planning, applying machine learning, and probabilistic modeling algorithms to solve multifaceted real-world problems. Possesses a deep understanding of critical concepts including machine learning, deep learning, reinforcement learning, computer vision, natural language processing, and inference systems. **Skilled at leveraging GPUs and supercomputer clusters** to execute complex experiments and implement innovative solutions. A published author with an Albased 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. **Selected among the top 11 teams in the NVIDIA OpenACC international hackathon** and also in the **top 5% in the IIT Kharagpur** database management systems course.

WORK EXPERIENCE

Al Developer, Charusat Learning And Development Club (CLDC)

May 2023 - June 2023

 As part of a team, I was responsible for developing a deep learning-based botnet detection model, capable of identifying and mitigating malicious botnet activities. Additionally, I contributed to the implementation of an emotion detection model using deep learning techniques, which was trained on both video and audio data to accurately recognize and classify human emotions.

SKILLS

Python

Java

Deep Learning

Machine Learning

Data Analytics

Computer Vision

MERN Stack
Oracle SQL
Mongo DB
R Programming
Linux

Microsoft Azure



PACKAGES

Tensorflow, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib, Open CV, Streamlit, Numba, Jupyter Notebook, Seaborn, Tmux, NodeJs, ReactJs, Collection Framework.

OTHER TECHNOLOGIES

Git, Github, Docker, Cloud, WandB, Jira.

EDUCATION

Bachelor of Artificial Intelligence And Machine Learning

Sep. 2022 - Oct. 2026

Charotar University of Science and Technology

- CGPA 9.54
- Industry Certifications
 - Standford University Machine Learning specialization
 - IIT Kharagpur Data Structure and Algorithms Using Java, Database Management Systems.
 - **DeepLearning.Al** TensorFlow Developer, Deep Learning, Generative Al with Large Language Models, Convolutional Neural Networks.
 - **NVIDIA** Fundamentals of Accelerated Computing with CUDA Python.
 - **Oracle** Oracle Certified Professional, Java SE 6 Programmer.
 - RedHat Fundamentals of Redhat Enterprise Linux 9.
 - Samatrix.io Data Analysis using Python, Foundation of Data Analysis and Data Analytics
- Course Work
 - Database Management Systems, Data Structure and Algorithms, Design and Analysis of Algorithms, Operating Systems, Artificial Intelligence, R programming.

Higher Secondary School

Mar. 2020 - Mar. 2022

Smt. Parvatiben Bhalchandra Dhirubhai Joshi Higher Secondary School - 87.96 PR

Primary and Secondary School

Mar. 2019 - Mar. 2020

Smt. Parvatiben Bhalchandra Dhirubhai Joshi High School - 92.98 PR

PROJECTS

- Democratic Net Defending Against Misinformation
 - Developed a platform leveraging deep learning models like Bi-LSTM, BERT, and Roberta (72.3% top-3 accuracy) to combat misinformation and fake news threatening democratic institutions. Curated proprietary dataset to train the models for efficiently analyzing and counteracting false narratives aimed at destabilizing nations.
- Veterinary Bacteria Classification
 - Rapid bacterial species identification is crucial across domains. Traditional lab methods relying on biochemical/molecular biology techniques are costly, time-consuming, and require expert knowledge due to complex sample preparation.
 - Finetuned a bacterial identification model experimenting with various deep learning architectures including VGG16, DenseNet, XceptionNet, EfficientNet, and others. The model achieved a remarkable 98.6% top-1 accuracy in classifying 24 bacterial species from non-microscopic(traditional way) images.
- Brain TV
 - Developed an Al neuroscience application, involved developing an Encoder-Decoder architecture
 using deep learning architectures like ViT (Vision Transformer) and diffusion model to visualize
 images based on human thoughts captured through fMRI signals. The project comprised two key parts:
 masked brain modeling and latent diffusion model conditioning by fMRI latent data.

PUBLICATION

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

ACHIEVEMENTS & EVENT PARTICIPATION

- Achieved the distinction of being among the top 11 teams selected from across India to participate in the prestigious International OpenACC Nvidia Hackathon, hosted at the esteemed Indian Institute of Science (IISC), Bangalore.
- Led a team that secured 2nd position at the University level in the Smart India Hackathon 2023, a nationwide innovation and problem-solving initiative.
- Topper 5% in the IIT Kharagpur NPTEL Database Management System course.
- Presented a paper at the International Conference on Recent Trends and Science Technology (ICRTST) 2023.
- Earned the honor of representing my department at the university-level **Student Startup and Innovation Policy (SSIP) Competition**, after being shortlisted for this esteemed event.
- Participated in the **Accenture Innovation Challenge 2023**, a platform that fosters creative thinking and innovative solutions to real-world problems.
- Coordinated the AI FOR ALL MEET-UP at Charusat University, an interdepartmental event aimed at promoting collaborative research projects and fostering a culture of innovation in the field of Artificial Intelligence.
- Served as a resource person for a two-day event organized by the Computer Society of India and IEEE, where I conducted sessions on web development using ReactJS, sharing my expertise and knowledge with attendees.

REFERENCES

- Dr. Nirav Bhatt Head of the Department of Artificial Intelligence and Machine Learning, **CHARUSAT**University
 - Email hod.aiml@charusat.edu.in
- Mr. Gunjan Shah Senior Technical Lead at HCL Technologies Limited
 - Email shahgunjan07@gmail.com

LANGUAGES

English, Hindi, Gujarati (Native), German (Beginner, currently learning).

PROFILE LINKS

- LinkedIn https://www.linkedin.com/in/neeldevenshah/
- Github https://github.com/NeelDevenShah