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"Be the visionary who passionately weaves technology into the fabric of our future."

Summary.

Innovative AI Engineer with proven expertise in machine learning and probabilistic modeling, tackling real-world challenges head-on. Mastery of cutting-edge AI concepts, from deep learning to NLP and computer vision. Published researcher in healthcare AI, currently leading two pioneering projects advancing the state-of-the-art. A 2x Hackathon Winner, including 1st place at the DataQuest2024 Hackathon and 2nd runner-up in another, demonstrating a strong track record in competitive AI problem-solving. Selected among the top 11 teams in the NVIDIA OpenACC international hackathon and ranked in the top 5% in IIT Kharagpur's DBMS course. Microsoft Azure Certified Data Science Associate, adept at leveraging cloud infrastructure for AI applications. Skilled in Databricks and MLOps, streamlining the entire machine learning lifecycle from experimentation to production. Combines technical prowess with practical experience to deliver impactful, scalable AI solutions. A visionary problem-solver, consistently translating complex AI theories into real-world applications that drive innovation and efficiency across industries.

Work Experience _____

Aviato Consulting

Australia (Remote)

Jan. 2016 - Jun. 2017

- Engineered AI-driven solutions for virtual fashion try-ons and B2B customer interactions using deep learning, multi-agent systems, recommendation engines, and Neo4j on Google Cloud Platform (GCP).
- · Developed personalized and interactive experiences by implementing multi-agent systems and sophisticated recommendation engines, enhancing user engagement and satisfaction.
- Integrated AI innovations into real-world applications for Australian clients, demonstrating the potential of AI to revolutionize various sectors and elevate user experiences.
- · Empowered consumers with informed fashion choices and businesses with deeper customer insights, driving significant advancements in fashion retail and customer relationship management.
- Contributed to projects that received outstanding client feedback and achieved remarkable business outcomes, showcasing the tangible benefits of Al.

Charusat Learning And Development Club (CLDC)

Gujarat, India

Al Developer

May 2023 - Jun. 2023

- · Spearheaded the development of a deep learning-based botnet detection model using TensorFlow, Keras, and Python, enhancing cyber**security** by identifying and neutralizing malicious botnet activities.
- · Played a pivotal role in creating an advanced emotion detection model, utilizing deep learning techniques to accurately recognize and classify human emotions from video and audio data.
- Utilized agile methodologies, robust problem-solving, and effective communication to drive project success.
- · Leveraged AI to deliver impactful solutions, showcasing technical expertise and a passion for continuous learning and excellence in the field.

Skills_

Data Science and Machine Learning Machine Learning, Deep Learning, Reinforcement Learning, Computer Vision, MLOps

> **Web Development** MERN Stack (MongoDB, Express.js, React.js, Node.js), Fast API, Flask

Programming Languages Python, Java, JavaScript, SQL, R Programming, Cypher, ŁTEX

> **Cloud Platforms** Microsoft Azure, Google Cloud Service (GCP), Databricks

Business Intelligence (BI) Tools Tebulu, Power BI

> Frameworks and Libraries Pytorch, Tensorflow, Keras, Scikit-Learn, Numpy, Pandas, Matplotlib, OpenCV, Seaborn, Numba

> > **Databases** Oracle SQL, MongoDB, Neo4j, Neo4j Graph Data Science (GDS)

Mobile APP Development Flutter (Beginner)

> **Development Tools** Git, GitHub, Docker, Weights and Biases (WandB)

Operating Systems Linux, Windows

> Languages English, Hindi, German (Beginner), Gujarati

Education

Charotar University of Science and Technology (CHARUSAT)

Gujarat, India

BACHELOR OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING Sep. 2022 - Apr. 2025 (Expected)

CGPA: 9.6

· Course Work: Database Management Systems, Data Structure and Algorithms, Design and Analysis of Algorithms, Operating Systems, Artificial Intelligence, R programming, Power BI, Tableau

NEEL SHAH · CURRICULUM VITAE (CV) SEPTEMBER 7, 2024

2022

PRIMARY, SECONDARY, AND HIGHER SECONDARY (SCIENCE)

- 10th Grade: 92.98th Percentile
- 12th Grade: 87.96th Percentile
- Course Work: Math, Physics, Chemistry

Achievements

	Winner, Clinched 1st place and a 70,000 INR prize in a prestigious competition organized by Adani	
2024	Institute of Digital Technology Management, sponsored by MSBC Group . Our team was selected from 120	MSBC Group
	talented individuals, showcasing innovative solutions to real-world data challenges.	
2024	2nd Runner-up, Secured the 3rd position and won a prize of 80,000 INR among 180 top-tier teams in The	
	Maverick Effect AI Challenge 2024, a prestigious hackathon supported by NASSCOM , GESIA IT Association,	NASSCOM
	Gujarat Technological University (GTU), TiE Ahmedabad, TiE Surat, TiE Vadodara, FICCI, Confederation of	
	Indian Industry, and ASSOCHAM.	
2024	Finalist , Selected as a finalist for the AI Hackathon 2024, jointly organized by Navatech Group, MSBC Group,	
	and Google for Developers, demonstrating innovative AI solutions and competing among top-tier	IIM Ahmedabad
	developers, hosted at the esteemed Indian Institute of Management (IIM), Ahmedabad.	
2024	Top 5% Nationwide , Achieved outstanding performance in the Database Management System course	IIT Kharagpur
	offered by IIT Kharagpur through the NPTEL.	
2023	2nd Award , Led a team that secured 2nd position at the University level in the Smart India Hackathon	SIH Hackathon
	2023 , a nationwide innovation and problem-solving initiative.	
2023	Finalist , 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	IISc. Bangalore
	Science (IISc), Bangalore.	

Industry Certifications

Learning specialization	1
	Learning specialization

IIT Kharagpur Data Structure and Algorithms Using Java, Data Base Management System

IIT Ropaar Deep Learning

DeepLearning.Al TensorFlow Developer, Deep Learning, Generative AI with Large Language Models, Convolutional Neural Networks.

Nvidia Fundamentals of Accelerated Computing with CUDA Python

Microsoft Certified Azure Data Scientist Associate, Data Science with Azure Databricks

Oracle Oracle Certified Professional, Java SE 6 Programmer

RedHat Fundamentals of Redhat Enterprise Linux 9

Neo4j Graph Academy Neo4j Graph Data Science Certification, Neo4j Data Modelling Fundamentals, Neo4j & LLM Fundamentals

Samatrix Data Analysis using Python, Foundation of Data Analysis and Data Analytics

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.
- Fine-tuned 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 AI 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.

MediPriority - Dynamic AI-Driven Healthcare System

- It is a Al-driven platform that transforms patient care by integrating advanced technologies like Semantic Search, Vision Language Models, and a Multi-Agentic Approach. By focusing on mental health support through AI Avatars and employing dynamic appointment scheduling based on urgency, MediPriority effectively addresses the inefficiencies of traditional healthcare systems.
- The platform enhances patient outcomes by providing continuous, personalized support and motivation while **prioritizing care based on** real-time assessments. This comprehensive approach ensures that patients receive timely and responsive healthcare, significantly improving both their mental and physical well-being.

Publications

Future of Large Language Models and Digital Twins in Precision Healthcare: A Symmetric Tuijin Jishu/Journal of Propulsion **Literature Review**

Technology

NEEL SHAH, DR. NIRAV BHATT, DR. NIKITA BHATT

Dec. 2023

Extracurricular Activity

Board of Studies, Artificial Intelligence and Machine Learning

Faculty of Technology, Charusat

University

Sep. 2023

STUDENT REPRESENTATIVE

- Acted as a key liaison between students and faculty, representing student interests in curriculum discussions and decision-making processes.
- Provided valuable input on course content, program structure, and academic policies to ensure the relevance and quality of the AI and ML

AI For All Meet-Up 1.0 Dept. of AIML, Charusat University

COORDINATOR • Played a pivotal role in the successful coordination of the "AI FOR ALL MEET-UP."

- Facilitated collaboration and discussions between AI experts and professionals from various other fields.
- · Created an inclusive environment for knowledge sharing, making AI technologies accessible and relevant to all participants.

Web Development using React.js

Computer Society of India & IEEE

RESOURCE PERSON

Sep. 2022

- Facilitated engaging learning sessions on React.js, Node.js, MongoDB, and Express.js for a group of enthusiastic participants.
- Delivered comprehensive hands-on training to help individuals master key aspects of full-stack web development.

References_

Dr. Nirav Bhatt hod.aiml@charusat.edu.in

HEAD OF THE DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING AT CHARUSAT UNIVERSITY

Mr. Gunjan Shah shahqunjan07@gmail.com

SENIOR TECHNICAL LEAD AT HCL TECHNOLOGIES LIMITED

Mr. Ben King ben@aviato.consulting

FOUNDER AT AVIATO CONSULTING