

Harsh Shah

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Available: Spring 2025/Summer 2025

EDUCATION

Northeastern University , Boston, MA	Jan. 2024
Master of Science in Computer Science, GPA: 4.0/4.0	Graduation: Dec. 2025
Relevant courses: Programming Design Paradigm, Foundations of Artificial Intelligence	
Savitribai Phule Pune University , Pune, India	June 2023
Bachelor of Engineering in Computer Engineering, GPA: 9.11/10.0	

SKILLS

Languages:	Java, C++, Python, Go, JavaScript
Web Technologies:	HTML, CSS, React, NodeJS, Angular
Databases:	MySQL, Microsoft SQL Server, MongoDB, PostgreSQL
Cloud & Ops:	Grafana, Prometheus, CI/CD, Docker, Jenkins
Frameworks:	Kubernetes, Tensorflow, Keras, Pytorch, Scikit-learn, NLTK, Java Swing, JUnit

WORK EXPERIENCE

Northeastern University , Boston, Massachusetts	May 2024 – Present
<ul style="list-style-type: none">TA for CS 3000 (Algorithms and Data) course for the Summer-1 and Fall 2024 term.	
Knorr-Bremse Technology Center India Pvt, Ltd. , Pune, India	Apr. 2022 – Apr. 2023
Software Engineer Intern	
<ul style="list-style-type: none">Improved the efficiency and accuracy by 70% in data management process by automating the process of MS SQL database updation by developing a Python script.Designed and maintained Microsoft SQL Server database schema to support various Software Engineering Key Performance Indicator (KPI) metrics following the Agile methodology for software development.Configured and developed Grafana dashboards for live data visualization of various KPI metrics.Improved continuous integration and deployment (CI/CD) of Jenkins pipelines by ensuring consistent and reliable deployment and maintenance processes.	
ShapeAI , Pune, India	Sept. 2021 – Dec. 2021
Data Scientist Intern	
<ul style="list-style-type: none">Achieved 96% accuracy in heart disease detection developing a Support Vector Machine (SVM) model with multiple kernels along with model optimization and hyperparameter tuning.Used scikit-learn and matplotlib for statistical data analysis of patient symptoms and creating effective visualizations to observe the trend of symptoms over wide range of patients.	

PROJECTS

Text Translation , Transformer and LSTM Architecture (link)	Jan. 2024 – Apr. 2024
<ul style="list-style-type: none">Collaborated on a team project to develop an efficient, high-quality text translation system using natural language processing architectures to promote global communication and cultural exchange.Developed transformer architecture without using any existing libraries to translate from French to English achieving an accuracy of 91%.	
Image Manipulation and Forgery Detection , Image Segmentation Model and deep learning (link)	July 2022 – May 2023
<ul style="list-style-type: none">Led a team on machine learning project to develop an image manipulation detection model using the ResNet and Unet architecture achieving an accuracy of 93% to detect image manipulations on the CASIA dataset.Conducted a survey on existing technologies and provided a faster way image recognition and manipulation detection.	
Driver Drowsiness Detection , OpenCV and Convolutional Neural Network (link)	July 2021 – Sept. 2021
<ul style="list-style-type: none">Created a Python application utilizing OpenCV to detect driver drowsiness in real-time using CNNs.Achieved 90% accuracy in predicting driver drowsiness, coupled with an integrated alarm system to alert the driver to pull over, ensuring timely intervention and accident prevention.	

PUBLICATIONS AND CERTIFICATES

Publications:	Exploring the Potential of Generative Adversarial Networks: A Comparative Study of GAN (link) Autonomous UAV Swarms: Powering Up with AI (link)
Certifications:	Neural Networks and Deep Learning (Coursera), Database Programming with PL/SQL (Oracle)