

# Ninad Mhalgi

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## EXPERIENCE

<b>AI Intern</b> — Bolt Today, Pune, India	Sep 2025 – Present
<ul style="list-style-type: none"><li>Programmed a custom AI chatbot window in Salesforce using Apex, enabling users to select between multiple LLM options, aimed at improving query response flexibility</li><li>Architected multi-agent Agentic AI workflows using LangGraph to automate Configure-Price-Quote pipelines</li></ul>	
<b>Software Field Technician</b> — UST Global, TX, USA	Nov 2024 – May 2025
<ul style="list-style-type: none"><li>Led the successful software upgrade of Oracle's Simphony software across 20+ locations and conducted thorough software and hardware testing to verify system integrity, optimize functionality, and ensure quality standards</li><li>Maintained and updated over 80 menu items, including price adjustments, item removals, condiment changes, and print class modifications, resulting in 100% client satisfaction during user acceptance testing</li></ul>	
<b>Teaching Assistant</b> — UT Dallas, Computer Science Department, TX, USA	Aug 2023 – May 2024
<ul style="list-style-type: none"><li>Supported instruction for and mentored a cohort of over 130 students for Fundamentals of Computer Science &amp; OS</li></ul>	
<b>Machine Learning Intern</b> — Computer Vision Center, UAB	Aug 2021 – Dec 2021
<ul style="list-style-type: none"><li>Designed a prototype of a zero-shot multi-modal learning system capable of processing images and text by training on a comprehensive 10K size dataset</li><li>Explored the impact of prompt customization on image and text encoding using similarity matrices leading to a 20% improvement</li></ul>	
<b>Machine Learning Intern</b> — i-exceed Technology Solutions, Bangalore, India	May 2020 – Jul 2020
<ul style="list-style-type: none"><li>Implemented an image segmentation pipeline using the U2Net convolutional neural network to isolate salient objects from complex backgrounds with over 91% segmentation accuracy</li><li>Integrated OpenCV for image preprocessing and postprocessing, including resizing, thresholding, and contour detection to refine segmentation results</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python3, MySQL, R, PostgreSQL, C++

**Tools:** FastAPI, LangChain, LangGraph, ChromaDB, OpenCV, Pytorch, Scikit-learn, Excel, Sheets, Numpy, Pandas

## PROJECTS

<b>RAG-Powered Document Q&amp;A System</b>   <i>Python, FastAPI, LangChain, ChromaDB</i>	Dec 2025 – Jan 2026
<ul style="list-style-type: none"><li>Developed a Retrieval-Augmented Generation (RAG) system enabling intelligent question-answering from uploaded documents</li><li>Engineered a FastAPI backend with 8 RESTful endpoints for document management, query processing, and monitoring, implementing vector similarity search using ChromaDB with sentence-transformers embeddings</li><li>Designed responsive web interface, real-time chat UI and source attribution display</li></ul>	
<b>Salient Object Detection</b>   <i>Python3, Pytorch, Convolutional Neural Networks</i>	Jan 2021 – Jul 2021
<ul style="list-style-type: none"><li>Conducted a comparative analysis of UNet and U2Net for the SOD task, using MSRA, DUTS, and ECSSD datasets and various testing methodologies</li><li>Determined that the ECSSD dataset outperformed the other datasets by 3.6% in terms of suitability for UNet and U2Net models</li></ul>	

## EDUCATION

<b>MS Computer Science</b>   The University of Texas at Dallas   3.88/4.00	May 2024
<b>BS Computer Science</b>   Birla Institute of Technology and Science, Pilani   8.09/10	May 2022

## CO-CURRICULAR ACTIVITIES

<b>Spoken Digit Dataset</b>	Jan 2020 – Mar 2020
<ul style="list-style-type: none"><li>Created a dataset of spoken Hindi &amp; English numbers from 0 to 10, published in the UPenn LDC</li></ul>	
<b>Algomaniax Coding Club</b>	Aug 2018 – Dec 2019
<ul style="list-style-type: none"><li>Organized and attended contests &amp; lectures on DSA concepts for over 50 undergraduates at BITS Pilani, Goa</li></ul>	