

# Ninad Mhalgi

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## EXPERIENCE

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- AI Intern** — Bolt Today, Pune, India Sep 2025 – Present
- Programmed a custom AI chatbot window in Salesforce using Apex, enabling users to select between multiple LLM options, aimed at improving query response flexibility
  - Architected multi-agent Agentic AI workflows using LangGraph to automate Configure-Price-Quote pipelines
- Software Field Technician** — UST Global, TX, USA Nov 2024 – May 2025
- Led the successful software upgrade of Oracle's Symphony software across 20+ locations and conducted thorough software and hardware testing to verify system integrity, optimize functionality, and ensure quality standards
  - 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
- Teaching Assistant** — UT Dallas, Computer Science Department, TX, USA Aug 2023 – May 2024
- Supported instruction for and mentored a cohort of over 130 students for Fundamentals of Computer Science & OS
- Machine Learning Intern** — Computer Vision Center, UAB Aug 2021 – Dec 2021
- 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
  - Explored the impact of prompt customization on image and text encoding using similarity matrices leading to a 20% improvement
- Machine Learning Intern** — i-exceed Technology Solutions, Bangalore, India May 2020 – Jul 2020
- Implemented an image segmentation pipeline using the U2Net convolutional neural network to isolate salient objects from complex backgrounds with over 91% segmentation accuracy
  - Integrated OpenCV for image preprocessing and postprocessing, including resizing, thresholding, and contour detection to refine segmentation results

## TECHNICAL SKILLS

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

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

## PROJECTS

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- RAG-Powered Document Q&A System** | *Python, FastAPI, LangChain, ChromaDB* Dec 2025 – Jan 2026
- Developed a Retrieval-Augmented Generation (RAG) system enabling intelligent question-answering from uploaded documents
  - 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
  - Designed responsive web interface, real-time chat UI and source attribution display
- Salient Object Detection** | *Python3, Pytorch, Convolutional Neural Networks* Jan 2021 – Jul 2021
- Conducted a comparative analysis of UNet and U2Net for the SOD task, using MSRA, DUTS, and ECSSD datasets and various testing methodologies
  - Determined that the ECSSD dataset outperformed the other datasets by 3.6% in terms of suitability for UNet and U2Net models

## EDUCATION

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**MS Computer Science** | The University of Texas at Dallas | 3.88/4.00 May 2024

**BS Computer Science** | Birla Institute of Technology and Science, Pilani | 8.09/10 May 2022

## CO-CURRICULAR ACTIVITIES

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- Spoken Digit Dataset** Jan 2020 – Mar 2020
- Created a dataset of spoken Hindi & English numbers from 0 to 10, published in the UPenn LDC
- Algomaniac Coding Club** Aug 2018 – Dec 2019
- Organized and attended contests & lectures on DSA concepts for over 50 undergraduates at BITS Pilani, Goa