

# Ninad Mhalgi

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## EXPERIENCE

- AI Intern** — Bolt Today Pune, India Sep 2025 – Present
- Designing and developing a custom AI chatbot window in Salesforce using Apex, enabling users to select between multiple LLM options, aimed at improving query response flexibility
- Software Field Technician** — UST Global, TX, USA Nov 2024 – May 2025
- Led the successful transition from Oracle Symphony 1 to Symphony 2 across 20 major airport locations in the USA
  - Conducted thorough software and hardware testing to verify system integrity, optimize functionality, and ensure compliance with quality standards
  - Maintained and updated over 100 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 a cohort of over 130 students for Fundamentals of Computer Science and OS
  - Mentored students on topics including data structures, time and memory complexity contributing to improved academic performance and engagement
- Machine Learning Intern** — Computer Vision Center, UAB Aug 2021 – Dec 2021
- Designed a prototype of a zero-shot multi-modal learning system utilizing CLIP model, 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

**Languages:** Python3, MySQL, R, PostgreSQL, C++, C#  
**Tools:** OpenCV, Pytorch, Scikit-learn, Excel, Sheets, Numpy, Pandas, Unity

## PROJECTS

- Collaborative Filtering** | *Python3, Pandas* Oct 2022 – Nov 2022
- Engineered a user-based collaborative filtering predictive algorithm using the Netflix Prize dataset consisting of over 100K data points
- 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

**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

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