

Ghritachi Mahajani

ghritachimahajani5@gmail.com | (720) 334-4815 | [linkedin.com/in/ghritachi-mahajani/](https://www.linkedin.com/in/ghritachi-mahajani/) | gritsiem.github.io

EDUCATION

Master of Science, Computer Science
University of Colorado, Boulder

Expected May, 2025
GPA **4.0**

Bachelor of Technology, Computer Science and Engineering
SRM Institute of Science and Technology
Graduated **First Class with Distinction**

May, 2019
CGPA **9.45/10**

SKILLS

Languages : Python, JavaScript, C++.
Machine Learning : PyTorch, Keras, Pandas, Numpy, Scikit-Learn, LSTMs, Transformers, Generative AI.
Full Stack : Web (HTML, CSS, JavaScript), TypeScript, Node.js, React, Django, MongoDB, PostgreSQL.
CI/CD : GCP, Spark, Kubernetes, Git.

WORK EXPERIENCE

Student Assistant (Part-Time)
RECUV Lab, CU Boulder

Feb, 2024-Present
Boulder, CO

- Managed the React/ Node web project for SAFARI autonomous drone planning research project, to answer research questions and gather user feedback and implemented 13+ features like Leaflet.js map, React Context, WebSocket API, and Tailwind CSS.

Summer Research Assistant
Institute of Cognitive Science, CU Boulder

June, 2024-August, 2024
Boulder, CO

- Explored the use of LLMs to classify interview interactions using Chain-of-Thought prompting.
- Implemented web interface using React, AJAX, and generative AI packages.

Senior UI Developer
Tata Consultancy Services

July, 2019-August, 2023
Delhi, India

- Developed website in AEM for the migration of Malaysia Airline's Enrich Loyalty Program, through collaboration with backend developers, UX designers and business leads, leading to 100% customer satisfaction.
- Led training in Headless CMS with Vue JS for a team of 12 for technological migration.
- Delivered an Angular-Ionic Android mobile application as a single member team, responsible for requirement gathering, testing, database updating, deployment and documentation of end-to-end technical architecture.

PROJECTS

Distributed Systems Client-Server E-commerce App

2023

- Implemented Client and Server functions for E-commerce seller using REST services in Flask.
- Implemented gRPC for PostgreSQL database calls, in addition to Atomic Broadcast protocol for multiple instances.

IBM Cloud Specialization Capstone Project

2021

- Developed a full stack car dealership application using Django, containing an admin site to manage data. Deployed using IBM Cloud foundry, IBM Container Registry (Kubernetes), a sqlite3 database, and github to store the code.
- Integrated IBM Watson APIs for sentiment analysis of reviews to classify them and display appropriate emojis.

Image Captioning System – Undergrad Capstone Project

2019

- Trained and compared deep learning encoder-decoder models (consisting of LSTMS, word embeddings and pre-trained CNNs) for image caption generation on a dataset of 8000 images, using Tensorflow, Numpy, Keras.
- Achieved 13% improvement on baseline model by optimization techniques like fine-tuning and vocabulary reduction.

CO-CURRICULARS

Publications: Yarlagadda et al., An AI-Powered Interactive Interface to Enhance Accessibility of Interview Training for Military Veterans, International Conference on Multimodal Interaction (ICMI) 2024 (*accepted for publication*)

Certifications: IBM Full Stack Software Developer Professional Certificate: **Docker, Kubernetes**, cloud, CI/CD etc.