

Ghritachi Mahajani

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EDUCATION

Masters of Science, Computer Science, *University of Colorado, Boulder* May 2025
Courses: Natural Language Processing, Distributed Systems, Data Center Scale Computing, Machine Learning GPA **4.0**
Bachelors of Technology, Computer Science and Engineering, *SRM Institute of Science and Technology* May, 2019
Graduated **First Class with Distinction** CGPA **9.45/10**

SKILLS

Programming Language: Python, JavaScript, C++.
Data & Tools : SQL, Python for statistics (Pandas, Numpy, Scikit-Learn), Apache Spark, Redis
Machine Learning & AI : PyTorch, Keras, Transformers, LLMs, Supervised/Unsupervised Learning, Optimization
Full Stack : React, Node.js, Django, MongoDB, PostgreSQL, Flask, HTML/CSS
Cloud & DevOps : Google Cloud (GCP), Docker, Kubernetes, Git, CI/CD

WORK EXPERIENCE

Summer Research Assistant June 2024 - August 2024
Institute of Cognitive Science, CU Boulder Boulder, CO

- Explored the use of LLM to classify and reason about the explainability of veteran interviews for easier transition into civilian life.
- Applied prompt engineering and few-shot learning techniques to analyze qualitative data using LLMs, contributing to a published research paper.

System Engineer July 2019 - August 2023
Tata Consultancy Services Delhi, India

- Developed high-availability customer loyalty web application, optimizing code for scalability and user engagement in production environments, leading to 100% customer satisfaction.
- Delivered an Angular-Ionic Android mobile application as a single member team, responsible for end-to-end development.
- Collaborated on integration of CI/CD workflows and code versioning using Git, improving deployment reliability and engineering efficiency.

PROJECTS

AI Integrated Log Analysis Application (University Course Final Project) | [Link](#) 2023

- Deployed a distributed containerized services-based application on Google Cloud Computing that takes log files asynchronously and stores them along with AI generated analysis of the logs, with authenticated user access.
- Implemented the cloud infrastructure using Elasticsearch for storage, Redis as message queue, Flask for REST, AWS S3 for storing files, Llama 3 Large Language Model for generating AI insight and Kibana for visualization.

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) | [Link](#) 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). [Link](#) 2024
Certifications: IBM Full Stack Software Developer Professional Certificate: Docker, Kubernetes, cloud, CI/CD etc.