

# Nooreen Fatima

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## EXPERIENCE

### Graduate Teaching Assistant

August 2024 - May 2025

- Providing assistance to Professors with course materials, grading, tutoring and assessing student performance.

### Data Science Engineer (Research), COGNITIVE CLOUD ANALYTICS

Nov, 2022 – May 2023

- Software Development with research on telecommunications deployments and design dimensioning, latency and power optimizations in 5G communications

### Data Science Intern, BYTIVE

Feb, 2022 – Oct, 2022

- Analyzed large datasets using ML Algorithms from different domains (Medical - >35M, 5G Router - > 1M, Telecom and Medical Diseases - >100K, GAN Imaging - >1GB)
- Worked on maintenance and analysis of data pipeline on Google Cloud Platform using PLX.
- Developed NLP Backend Software using Flask and word embeddings

## EDUCATION

### University of Missouri - St. Louis

2023 - Present

Masters - Computer Science, GPA - 4.0

### Osmania University

2019 – 2023

Bachelor of Engineering – Computer Science and Engineering (CSE)

*Relevant Coursework: Data Structures, Algorithms, OOPs, Operating Systems, Computer Networks, Computer Organization, Database Management Systems, Distributed Systems, Artificial Intelligence, Machine Learning*

## LEADERSHIP AND VOLUNTEER EXPERIENCE

### Program Associate, UMSL OIPE

April, 2024 - Present

- Provide case management services to college students with intellectual and developmental disability
- Work in a collaborative and supportive team-based environment

### Governing Body Member, IEEE CIS (Computational Intelligence Society)

May, 2022 – May, 2023

- Responsible for organizing and managing technical events and teams under IEEE.

### Core Team, IEEE CIS (Computational Intelligence Society)

May, 2021 – May, 2022

- Mentored teams in the domain of Web Development and Machine Learning.
- Speaker in IEEE CIS Event: NFT - Beyond Digital Art.

### Execom Head, MICROSOFT STUDENT SOCIETY

May, 2021 – Aug, 2022

- Head of Design team which was responsible for marketing materials for events.
- Organizing Team member of ImagineHack Hackathon in 2021

## PROJECTS

### Traffic Surveillance [Link](#)

Project to classify and count the respective vehicles from traffic surveillance footage and save data in a CSV file. through a dynamic and interactive user interface.

*Softwares used: python, opencv, numpy, pandas, tkinter, yolo algorithm(deep learning), tensorflow.*

### Malware Image Identification [Link](#)

A software which is used to identify computer malwares using limited images. GAN (Generative Adversarial Network) is used to enlarge dataset, identification is done by CNN (Convolutional Neural Network).

*Softwares used: python, sklearn, tensorflow, keras.*

### Event Management System [Link](#)

A website used to manage all events on user and admin end with dynamic user interface and multiple endpoints.

*Softwares used: python, flask, HTML, JS, CSS, Bootstrap, MySQL, UML, REST APIs, MongoDB*

## SKILLS

**Technical:** Python, Python Libraries (Numpy, Pandas, Sci-kit, Matplotlib), Flask, Tensorflow, Keras, C/ C++, HTML, CSS, Bootstrap, Javascript, SQL, MongoDB, SQL

**Cloud Technologies:** Google Cloud Platform - PLX Platform, Snowflake

## CERTIFICATIONS / TRAININGS

- IBM Machine Learning Associate Badge , IBM: [Link](#)
- Data Structures and Algorithms, Coding Ninjas
- Machine Learning, Verzeo
- Deep Learning, Udemy