

RUCHIR CHUGH

(682) 375-9076 | chugh.ruchir@gmail.com | Arlington, TX
www.linkedin.com/in/ruchirchugh | <https://github.com/ruchirchugh> | <http://ruchirchugh.uta.cloud/>

EDUCATION

- Aug 2018 – May 2020
Master of Science in Computer Science,
University of Texas at Arlington, GPA: 4.0
- Jul 2013 – Jul 2017
Bachelor of Technology in Information Technology,
Guru Gobind Singh Indraprastha University, New Delhi

SKILL SET

OS- Windows, Ubuntu, MacOS, iOS, Android
Languages- C, C++, Java/J2EE, Python, PHP, Matlab
DB- MySQL, DBMS, RDBMS, SQL, PLSQL
WEB- HTML5/CSS3, JavaScript, JQuery, Visualforce

WORK EXPERIENCE

- Aug 2019 – Present
The University of Texas
Graduate Teaching Assistant
- Assisting the professor evaluating the projects, assignments and exams for Data Analysis and Modelling Techniques class (CSE 5301)

- Jun 2019 – Aug 2019
The University of Texas
Web Developer
- Worked as a full-stack developer for the college of science department.

- Oct 2017 – Jul 2018
Capgemini, Pune, India
Software Engineer
- Developed and tested the application in **Salesforce** for HR department of Morgan Stanley.
 - Trained in **Java** (Core Java, JSP, Servlets, JPA Hibernate, Spring, Angular JS).
 - Trained in **Capital Markets** (IPO, Stock Exchange, Trading, Wealth Management, Risk Management).

- Jun 2016 – Jul 2016
Laser Science And Technology Center, Defence Research and Development Organisation (DRDO), Government of India, New Delhi
Intern
Online Vehicle Requisition System
- Built a web application based on MVC architecture which used to automate the vehicle requisition system within the organization.

CERTIFICATIONS

- Oracle Certified Associate, Java SE 7 Programmer
Neural Networks and Deep Learning (Coursera)

ACADEMIC PROJECTS

Movie search and classification engine

- Developed a text search engine for a movie dataset with 100k rows. Pre-processed the data using tokenizing, stemming to remove the stop words. Further vectorizing and using TF-IDF and cosine similarity to fetch the results from free text.
- Implemented a classifier using KNN algorithm based on the plot of the movie to predict the best possible genre.

Computer Vision

- Worked on frame differencing, connected components, bounding boxes, color segmentation, directional derivatives and gradients.
- Implemented Hough transformation, template search and nearest neighbor classification using Euclidean and Chamfer distance.
- Implemented face detector and calculated true positives and false negatives based on the ground truth.

Machine Learning

- Implemented various machine learning algorithms using MATLAB like Linear Regression, Logistic Regression, Decision Tree, Principal Component Analysis (PCA), K-Nearest Neighbor, Dynamic Time Warping (DTW) and K-Means.

Neural Network

- Implemented Perceptron Learning Rule, Linear and Logistic regression.
- Also worked on Learning curves, Regularization and model selection using keras library.
- Developed a fully connected feed forward network and trained an advance architecture (RNN) for the same task.

Pet Store

Web Data Management Project

- Developed a fully functional website in Php using CodeIgniter

Online Review Manipulation Detection

Major Project

- Detected the spam reviews based on several different parameters in the application using .NET framework.
- Developed the logic of the program and Led the team of four people.

EXTRA-CURRICULAR ACTIVITIES

- Computer Science **Tutor** at UTA.
- Participated in various hackathons.
- **Webmaster** of IEEE Student Branch.
- **Website Team Head** in various college events.