

# RUCHIR CHUGH

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## EDUCATION

### University of Texas at Arlington

Aug 2018 – Dec 2020

Master of Science in Computer Science, **GPA: 4.0**

Related coursework: Algorithms, Data Mining, Data Analysis & Modeling, Machine Learning, Computer Vision, Neural Networks

### Guru Gobind Singh Indraprastha University, New Delhi

Jul 2013 – Jul 2017

Bachelor of Technology in Information Technology

Related coursework: Object-Oriented Programming, Database Management, Java, Operating System, Web Development

## SKILL SET

**Data Science-** Data Collection & Visualization, Probability, Inferential Statistics, Machine Learning Algorithms, Deep Learning

**Programming Languages/Libraries-** Python, Java/J2EE, NumPy, C, C++, PHP, Matlab, TensorFlow, Scikit-Learn, Keras, Pandas

**Web Technologies-** HTML5, CSS3, JavaScript, jQuery, XML, XAMPP, React, MVC, Angular, REST, MySQL, RDBMS, SQL, PLSQL, Junit

**Software/IDE-** Jupyter Notebook, Anaconda, Eclipse, Visual Studio, NetBeans, PyCharm, Cascade Server CMS, Codeignitor, Git

## WORK EXPERIENCE

### Adva Optical Networking Intern

Jun 2020 - Present

- Design and developed a prototype relational database
- Tech Stack: MySQL, Python

### The University of Texas at Arlington Graduate Teaching Assistant

Aug 2019 – May 2020

- Coursework: Data Analysis and Modeling Techniques

### The University of Texas at Arlington Web Developer - Intern

Jun 2019 – Aug 2019

- College of Science department's website development
- Web Technologies Used: CMS system (Cascade), PHP, JavaScript, HTML, CSS

### Capgemini, Pune, India Software Engineer

Oct 2017 – Jul 2018

- Projects: development of employee management system and reservation system
- Clients: Morgan Stanley and Capgemini
- Result: faster system response by ~20% for EMS
- Tools: core Java, spring boot, angular, JPA Hibernate, salesforce

## ACADEMIC PROJECTS

### Search Engine

Aug 2019 – Dec 2019

- Developed search engine and classifier for movies dataset.
- Result: search was made in less than 2 seconds and classified with an accuracy of 53%
- Topics: Python, term frequency/inverse document frequency, cosine similarity, Naïve-Bayes classifier

### Recommender System

Aug 2019 – Dec 2019

- Collaborative filtering-based recommendation system
- Result: Achieved the accuracy of 73% for classification
- Topics: Python, prior/posterior probabilities, nearest neighbor algorithm

### Computer Vision

Jan 2019 – May 2019

- Implementation of a face detector, worked on camera calibration and stereo object detection
- Topics: frame differencing, connected components, bounding boxes, directional derivatives and gradients

## CERTIFICATIONS

- Oracle certified associate, Java SE 7 programmer Jan 2018
- Deep learning specialization (Coursera) Jul 2019

## EXTRA-CURRICULAR ACTIVITIES

- Computer Science tutor at the IDEAS Center
- Regular participation in hackathons
- Webmaster of IEEE student branch at Guru Gobind Singh Indraprastha University