

# Rupali Gupta



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## KEY HIGHLIGHTS

- Master's in Computer Science with Three (3) years of Industrial Experience: Computing Science, Software Development and Research & Development.
- Highly proficient in developing data-driven predictive/analytical solutions using extensive statistical modeling. (un/supervised solutions with classical ML or deep learning)
- Awarded 'Graduate Student Travel Scholarship' by FGSR, University of Alberta for Research Publication which is a competitive process with only 5% selection rate.
- Strong ability to handle multiple priorities in a fast-paced environment through strategic problem solving, critical thinking and effective time management skills. 
- Possess a valid driver's license with own personal car, and willing to relocate if required.
- Legally allowed to work anywhere in Canada (Permanent Resident). 

## EDUCATION


### **MSc Computer Science, Specialization Multimedia Graduated 2020**

University of Alberta, Edmonton, Alberta, Canada  
GPA: 4/4

### **BEng (Hons.) Computer Science and Engineering Graduated 2017**

Dr. A.P.J. Abdul Kalam Technical University, India  
GPA: 3.6/4

## SKILLS

Languages:	Python, C#, SQL
Tools:	Visual Studio Code, Git, Team Foundation Server
Machine Learning Libraries:	Pandas, Scikit-Learn, SciPy, NumPy 
Framework:	Pytorch, Keras, Tensorflow
Platform:	Microsoft Azure

## WORK EXPERIENCE

### **SOFTWARE DEVELOPER April 2019 – Current**

***PCL Industrial Management Inc, Edmonton, Canada*** 

- R&D in Digital Construction Engineering.
- Solving data structure problems using Python
- Developing company tailored plugins for Autodesk Naviswork using C#.
- Embedding Cloud Computing (Microsoft Azure) in ongoing solutions.

### **SUMMER RESEARCH FELLOWSHIP INTERN April 2016 – June 2016**

***Indian Institute of Technology, Delhi, India***

- Developed a dynamic function to solve the concern of data security in android application.
- In-corporate tools like aapt to extract data from the apk file internal structure on Linux Environment.



## RELEVANT PROJECTS (Analytical Experience)

### **Build a Chatbot (Applied Deep Learning: Recurrent Neural Networks) (Python) - ongoing**

- Implementation of Chatbot in Pytorch (Long short-term memory and Sequence Modeling Application)

### **Credit Card Fraud Detection using Machine Learning (Python)**

- Building Credit card fraud detection using Logistic Regression model.

### **Loss-minimized Video Streaming (Python)**

- Designed an algorithm to increase the quality of video streaming by reconstructing the lost frame of the video in a network based on a threshold value without compromising the time complexity.

### **Supervised Image De-noising in the Presence of Spatially Varying Noise (Python)**

- Designed a software with the capability of de-noising unevenly distributed noises in images using deep neural network (Machine Learning) and tested with an above average success rate.

## SELECTED PUBLICATIONS

**Human Boday Fall Detection.** International Conference on SmartMultimedia, Nov. 2019, San Diego, USA

- Designed a customized platform to detect fall without the use of any external devices or sensors and capable of sending alerts to the guardians in case of sudden fall detected in real-time environment.
- The system was tested under different extreme environmental conditions.

## AWARDS AND SCHOLARSHIPS

- Awarded 'Graduate Student Travel Scholarship' by FGSR, University of Alberta for Research Publication which is a competitive process with only 5% selection rate.
- Among the first 10 candidates to be selected as a Research Scholar in 'Summer Research Scholarship Fellowship Program' – Indian Institute Technology, Delhi, India.
- Nominated 'Creative Head' as a part of Technovation Team (C.S.E. Technical Club), after my voluntary contribution in conducting, organizing, managing, promoting and funding of the Technical Events at undergraduate level.

## VOLUNTEER

- Technical Advisor, Aluid & Co Global Innovations, Edmonton, Canada
- Volunteer, Campus Food Bank, University of Alberta, Edmonton, Canada
- Volunteer, Rotaract Club, Rotary, University of Alberta, Edmonton, Canada
- Creative Head, ABES Engineering College, Uttar Pradesh, India