

Akshit Arora

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EDUCATION

- **University of Colorado** Boulder, CO
Master of Science in Computer Science (Specialization: Artificial Intelligence) *Aug. 2017 – Present*
- **Thapar University (TU)** Patiala, India
Bachelor of Engineering in Computer Engineering; GPA: 3.67 (Major), 3.37 (Overall) *Aug. 2013 – Jul. 2017*

PROGRAMMING SKILLS

- **Languages:** Python, C++, SQL, PHP, C# **Technologies:** Tensorflow, Unity 3D, Vuforia, Bootstrap
- **Graduate Courses:** Neural Networks & Deep Learning; Design & Analysis of Algorithms
- **Tools:** Palisade Decision Tools (@RISK & Evolver), NeuLog API, InquisitLab, Qualtrics

EXPERIENCE

- **Indian Institute of Technology (IIT), Mandi** Himachal Pradesh, India
Research Intern at the Applied Cognitive Science Lab *Jun 2014 – Jul 2017*
 - **Interactive Landslide Simulator (ILS):** Developed a web-based research tool to balance public risk perceptions and how people at risk could adapt, to and mitigate the landslides in their neighbourhood. pratik.acslab.org
 - **Marker-based and GPS-based Augmented Reality (AR):** Explored various libraries for AR based application development including, Google Tango, Microsoft Holo-lens, Wikitude SDK, ARToolkit & KudanAR. Built a tool (android application) for training military personnel in different cognitive loads. Responsible for making AR simulations similar to scavenger hunt and first-person-shooter games using Vuforia.
 - **Monitoring physiological sensors in real-time:** Integrated sensors for measuring blood pressure, galvanic skin response, heart rate and respiration (by NeuLog) to the AR simulations for military personnel.
 - **Research:** Gave oral presentations in 3 domestic and 1 international conferences. Wrote 1 Journal Paper and 1 Book Chapter (see details in the Projects section)
- **University of Colorado** Boulder, CO
Grader and Teaching Assistant at the Department of Computer Science *Aug 2017 - Present*
 - **Teaching Assistant - The Art of Computational Thinking:** Responsible for conducting lab sessions, holding office hours, interview-based grading, solving doubts and prepare assignments for 200+ students.
 - **Grader - Human-Centered Computing:** Responsible for grading assignments for 150+ students.

PROJECTS AND PUBLICATIONS

- **Intelligent Virtual Assistant:** (Ongoing) A chat-bot for motivation quotes on facebook's messenger.
Using: Tensorflow, api.ai, Python
- **Student Evaluation Portal:** A tool to track and evaluate student's performance over 6 months training period.
Using: CodeIgniter, Google Analytics, MySQL, KAdmin; Worked in a team of 4; Link: goo.gl/zZuCTv
- **Learning in an Interactive Simulation Tool against Landslide Risks: The Role of Amount and Availability of Experiential Feedback:** Chaturvedi P, Arora A, Dutt V. Natural Hazards and Earth System Sciences. 10.5194/nhess-2017-297. Sep 2017. **Journal Paper**.
- **Interactive Landslide Simulator: A Tool for Landslide Risk Assessment and Communication:** Chaturvedi P, Arora A, Dutt V. Advances in Applied Digital Human Modeling and Simulation (Springer Books). 481: 231-243. Jul 2016. **Book Chapter**.
- **Interactive landslide simulator: A tool for landslide risk and damage assessment.** : Chaturvedi P, Arora A and Dutt V. Applied Human Factors and Ergonomics, Orlando, Florida, USA. Jul 2016. **Oral Presentation**.
- **Ph.D. records management:** Manage information (like %Ph.D. completion, publications, etc) of Ph.D. students.
Using: Bootstrap, PHP, MySQL; Worked in a team of 3; Link: goo.gl/Rt2zXt

LEADERSHIP ACTIVITIES

- **Travel Fellowship Award:** First person in my college to be awarded funding for presenting 3 research papers at 7th International Conference on Applied Human Factors and Ergonomics, Orlando, FL, USA by TU and IIT Mandi.
- **Co-Convener - International Forum for Leadership and Sustainability:** Organized awareness campaigns, quiz events, dog vaccination camps and creativity competitions for underprivileged students.
- **Photography Events:** Organized photo-walks in IIT Mandi and Thapar University. Encouraged different types of photography. Regularly update photos at 500px. (Link: 500px.com/akshitarora)