

FINAL YEAR · B.E. COMPUTER ENGINEERING Thapar University, Patiala, India

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Education

Thapar University Patiala, India

B.E. IN COMPUTER ENGINEERING | CUMULATIVE GPA: 8.28 / 10

A.I.S.S.C.E. (XII, 2013): 92.8%, A.I.S.S.E. (X, 2011): 9.4 / 10 CGPA

Jul 2013 - Jul 2017 (Expected)

• Research Focus: Artificial Intelligence, Machine Learning, Cognitive Science

Swami Sant Dass Public School (CBSE)

Jalandhar, India

Mar 2009 - Apr 2013

Internships and Projects

Applied Cognitive Science (ACS) Lab, Indian Institute of Technology (IIT) Mandi

Mandi, India

RESEARCH INTERN

- Development of human-performance modeling framework via physiological and signal processing tools for visual cognitive enhancement in IVD, VR and AR paradigms.
- The project is funded by Defence Research and Development Organisation (DRDO), India. Working under supervision of Dr. Varun Dutt.
- Technologies used: Unity 3D, C#, NeuLog Sensors, Vuforia, Google Cardboard, ARToolkit

Data Analytics and Intelligence Research Group, IIT Delhi

New Delhi, India

RESEARCH INTERN | GITHUB: HTTPS://GITHUB.COM/AKSHITARORA/POLITICIAN_IE

May 2016 - Jun 2016

- Researched on various approaches in Natural Language Processing to detect opinion.
- Under supervision of Dr. Maya Ramanath, developed heuristics to determine whether a politician supports / opposes a public policy by analyzing their tweets using Python.
- Python packages used: Scrapy, BeautifulSoup, JSON, NLTK, Twitter API, Requests.

ACS Lab, IIT Mandi Mandi, India

RESEARCH INTERN | LINK: HTTP://PRATIK.ACSLAB.ORG

Jun 2015 - Present

- Developed a web-based research tool, Interactive Landslide Simulator (I.L.S.), to balance public risk perceptions and how people at risk could adapt, to and mitigate the landslides in their neighbourhood. Working under the guidance of Dr. Varun Dutt.
- $\bullet \ \ Project selected for 3 oral \ presentations \ and \ a journal \ manuscript \ has \ been \ submitted \ to \ Journal \ of \ Risk \ Analysis \ and \ is \ currently \ under \ review.$
- Technologies used: PHP, MySQL, Twitter Bootstrap, Qualtrics, Palisade Decision Tools, Monte Carlo Simulations, Academic Prolific.

Computer Science and Engineering Department (CSED), Thapar University

Patiala, India Aug 2015 - Dec 2015

PROJECT ASSISTANT | TEMPORARY LINK: http://onlinehostelj.in/phd

- Developed an online portal for maintaining Ph.D. student records and management of URB meetings.
- · Worked under the guidance of Dr. Parteek Bhatia. Project about to be used live for upcoming Ph.D. students at the department.
- Technologies used: PHP, MySQL and Twitter Bootstrap.

Publications and Oral Presentations

- 1. Chaturvedi P, <u>Arora A</u>, Dutt V. Interactive Simulation Tool for Improving Awareness and Decision Making on Landslide Risks. Journal Paper (Manuscript under review with **Journal of Risk Analysis**).
- 2. Chaturvedi P, <u>Arora A</u>, Dutt V. Interactive Landslide Simulator: A Tool for Landslide Risk Assessment and Communication. Advances in Applied Digital Human Modeling and Simulation (Springer Books). 481: 231-243. Jul 2016. **Book Chapter**.
- **3.** "Interactive landslide simulator: A tool for landslide risk and damage assessment" (P. Chaturvedi, **A. Arora** and V. Dutt). Applied Human Factors and Ergonomics, Jul 2016, Orlando, Florida, USA. **Oral Presentation**.
- **4.** "Influence of motivational factors on hackers' and analysts' decisions in dynamic security games" (Z. Maqbool, V. S. C. Pammi and V. Dutt). Applied Human Factors and Ergonomics, Jul 2016, Orlando, Florida, USA. **Oral Presentation**.
- **5.** "Cyber-security: Role of deception in cyber-attack detection" (P. Aggarwal, C. Gonzalez and V. Dutt). Applied Human Factors and Ergonomics, Jul 2016, Orlando, Florida, USA. **Oral Presentation**.
- **6.** "Interactive landslide simulator: A tool for landslide risk and damage assessment" (P. Chaturvedi, <u>A. Arora</u> and V. Dutt). 25th Convention of National Academy of Psychology, Feb 2016, Allahabad, India. **Oral Presentation**.

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Academic Achievements

Jul 2016	Received travel fellowship to attend Applied Human Factors and Ergonomics 2016 conference from Thapar University and IIT, Mandi	Orlando, USA
2013-15	Co-Convener at International Forum for Leadership and Sustainability (social-startup) for 2 years Successfully organized awareness campaigns and creativity competitions for underprivileged students	Patiala, India
2015	Secured 3rd position in 'Capture The Flag' competition Cyber Security competition among 15+ colleges from India organized by TU	Patiala, India
2014	Attended International Workshop on Machine Learning Algorithms and Data Analytics organized by IEEE	Patiala, India
2014	Design Team Member designed posters, flex and artworks for Aranya 2014 (techno-cultural festival at TU)	Patiala, India
2011	NASA CloudSat member Collecting ground data for NASA's CloudSat mission at school.	Jalandhar, India

Additional Skills and Relevant Coursework

Programming Languages: C, C++, C#, Python, MATLAB, PHP, HTML, CSS, JavaScript, MySQL, ŁTFX

Frameworks / Packages / Open Source Libraries: Twitter Bootstrap, Codelgniter, Django, Impress JS, Scrapy, BeautifulSoup, JSON, NLTK, Twitter API, Requests, Tweepy, ARToolkit, Vuforia

Tools / Operating Systems: GitHub, Palisade Decision Tools (@RISK and Evolver), Weka, Windows, Ubuntu, Fedora, macOS, Noobs (Raspberry Pi), Unity 3D

Coursework: Analysis and Design of Algorithms, Advanced Data Structures, Database Management Systems, Software Engineering, Data Mining and Warehousing, Artificial Intelligence, Analysis and Design of Information Systems, Natural Language Processing, Theory of Computation, Operating Systems, Principles of Programming Languages, Web Technologies, Computer Networks, Computer System Architecture

Test Scores _

Graduate Record Examination - General Test (GRE by Educational Testing Service):

170 / 170 : Quantitative Reasoning (97th Percentile)
154 / 170 : Verbal Reasoning (64th Percentile)
4.0 / 6.0 : Analytical Writing (59th Percentile)

Test Of English as a Foreign Language - internet Based Test (TOEFL-iBT by Educational Testing Service):

26 / 30 : Reading 29 / 30 : Listening 27 / 30 : Speaking 26 / 30 : Writing

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