Anant Mittal

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EDUCATION

University of Washington, Paul G. Allen School of Computer Science & Engineering	Seattle, WA, USA
Doctor of Philosophy, Computer Science	*2019 - Ongoing*
University of Michigan, School of Information	Ann Arbor, MI, USA
Master of Science in Information, Specialization in Data Science	*April 2019*
Indraprastha University, Bharati Vidyapeeth's College of Engineering	New Delhi, India
Bachelor in Computer Science	*June 2013*

RESEARCH EXPERIENCE

University of Washington — Seattle, WA, USA
Center for Game Science — *June '19 - Ongoing*
Advisor: Prof. Zoran Popović

- Building educational platforms for teacher student classroom environments and applying machine learning techniques for scientific discovery through games

University of Michigan — Ann Arbor, MI, USA
The Mentor Academy, Educational Technology Collective — *Sep '18 - April '19*
Advisor: Prof. Christopher Brooks

- Created extensions for Jupyter environment using JavaScript, Python, Flask, and Amazon Web Services to crowd source contextual data science questions and datasets through graduated learners from MOOCs

Learning and Automating De-escalation Strategies in Online Discussions — *Jan '19 - April '19*
Advisors: Prof. Libby Hemphill and Prof. David Jurgens

- Built a large-scale intervention system to measure hate speech in Reddit threads using deep learning models and a rule-based system and accordingly intervene using a repository of de-escalating comments

PROFESSIONAL EXPERIENCE

AdmitHub, Harvard Innovation Lab — Boston, MA, USA
Deep Learning Intern - Natural Language Understanding — *May '18 - Jul '18*

- Developed a chatbot using natural language understanding techniques to help students find relevant scholarships

Adobe Systems Pvt Ltd. — Bengaluru and Noida, India
Associate Engineering Services Consultant — *Sep '14 - Mar '16*

- Used LAMP stack, Hadoop, JavaScript, and visualization libraries to build custom big data solutions for Adobe's digital marketing suite clients

IKP Centre for Technologies in Public Health — Thanjavur, Tamil Nadu, India
Software Engineering Intern — *Jun '12 - Jul '12*

- Used LAMP stack, JavaScript, and Google Charts API to create automated graphical reports and visualizations to help health administrators understand patient data

PUBLICATIONS

- April Wang, **Anant Mittal**, Christopher Brooks, Steve Oney (2019). How Data Scientists Use Computational Notebooks for Real-Time Collaboration. To appear at the Proceedings of the ACM: Human-Computer Interaction, Computer-Supported Cooperative Work and Social Computing (CSCW). November 9-13, Austin, TX. [Best Paper Award]
- **Anant Mittal**, Christopher Brooks. Augmenting Authentic Data Science Environments for Learning Analytics. 9th International Conference on Learning Analytics and Knowledge 2019 (LAK19). March, 2019. Tempe, AZ, USA. Poster.

Consulting & Volunteering Experience

Aam Aadmi Party, Delhi Government   New Delhi, India
Technical Advisor   *Sep '16 - Jun '17*

Prof. Aprajit Mahajan, UC Berkeley   New Delhi, India
Research Assistant   *Sep '15 - Aug '16*

- Used Neo4j graph database, Java, and Gephi to detect fraudulent dealers in Delhi government's tax system
- Used PHP, and Beautiful Soup to digitize a database of 13 million registered voters in Delhi

Swasth Foundation   Mumbai, Maharashtra, India
Application Developer   *Dec '14 - Jun '16*

- Used Ionic, AnglularJS, and Qt Framework to create personal health tracking applications, targeting more than 150,000 Swasth patients

Teaching Experience

University of Washington   Seattle, WA, USA
Teaching Assistant - CSE 481D Games Capstone Software   *Winter 2020*

University of Michigan   Ann Arbor, MI, USA
Graduate Student Instructor - SI 485 Information Analytics Capstone Project   *Winter 2018*

Honors and Awards

Achievement and Spot Bonus Award   Bengaluru, Karnataka, India
Adobe Systems Pvt Ltd.   *Dec' 2015*

Best Start-Up Idea   Bengaluru, Karnataka, India
2nd Place, Start-Up Weekend Bangalore   *Nov' 2013*

Relevant Coursework

University of Washington, Seattle
Introduction to Deep Learning, Prototyping Interactive Systems, Artificial Intelligence, Machine Learning, Implementation of Programming Languages

University of Michigan, Ann Arbor
Contextual Inquiry, Introduction to Statistics and Data Analysis, Information Retrieval, Computational Data Science, Data Manipulation and Analysis, Natural Language Processing, Practical Use and Communication of Bayesian Statistics, Networks, Applied Machine Learning, Data Mining, Big Data Analytics

Coursera
Fundamentals of Reinforcement Learning, Neural Networks and Deep Learning, Structuring Machine Learning Projects, Functional Programming Principles in Scala, R Programming, Machine Learning, Introduction to Data Science in Python