ANAY GUPTA

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Soft-computing oriented student highly motivated to enhance skills such as data mining, machine learning, and computer vision towards momentous real-world problems.

Education:

B.S. Computer Science 2021 **Expected May 2021**

Barrett, The Honors College, at Arizona State University

Coursework:

In-Progress

- *CSE 494*: Artificial Intelligence for Cyber Security; *CSE 360*: Introduction to Software Engineering
- *CSE 330:* Operating Systems; *IEE 380:* Probability & Statistics for Engineering Problem Solving

Completed

- *CSE 310:* Data Structures and Algorithms; *MAT 343*: Applied Linear Algebra; *MAT 243***:** Discrete Math Structures

Proficient Programming Languages: Python, SQL, Java, MATLAB, C/C++, JavaScript, HTML, PHP

Software: mySQL/PostgreSQL, Unix/Linux, Tableau, Jira, scikit-learn, git, pandas, NumPy/SciPy

Hardware: Microsoft Kinect, Intel Edison (IoT platform)

Other/Soft Skills: Agile Methodologies, Jira, Analytical Problem-Solving, Effective Written & Verbal Communication, Adaptability, Creativity, Public Speaking

Projects:

The Decision Theater Network - Arizona State University

Software Developer **April 2018 – Present**

Addressing cross-disciplinary local, national, and international issues through data visualization, predictive modeling, and expert analytics. Developing a 7-screen dashboard model to enable **Arizona Board of Regents to raise the average Arizona educational attainment to 60%.** Developed visualizations to analyze land cover degradation around the world for the Conservation International Environmental Foundation. **Presented land degradation analysis tool at The McCain Institute in Washington, D.C. (October 2018).**

Artificial Intelligence and The Practice of Law - Sandra Day ‘O Connor College of Law

Undergraduate Research Aide **Feb 2018 – Present**

Working in the intersection of artificial Intelligence and law. Researching the allocation of fault when autonomous vehicles go awry for a series of white papers. Commencing research on the **integration of artificial intelligence in the practice of law** through legal analytics and other legal tools.

Cyber-Socio Intelligent Systems (CySIS) Lab - Arizona State University

Paid Research Intern (ScraperTeam & Machine Learning Team) **Aug 2016 – Nov 2017**

Mined proactive cyber-threat intelligence -- specifically, details of malicious software designed to exploit security flaws in financial institutions (e.g. JPMorgan Chase, Bank of America, PayPal, etc) -- from marketplaces, forums, and repositories on the dark web in an effort to prevent and/or minimize the damage of cyber attacks. Funded by Department of Defense. Used Python, HTML, and PostgreSQL. **1st place winner of Hamilton Invitational Science and Engineering Fair; 3rd place winner of Arizona Science and Engineering Fair.**

Computer Science, Biology, and Biomedical Informatics (CoSBBI) at University of Pittsburgh Cancer Institute

Research Intern **Jun 2016 – Aug 2016**

Applied software and computational techniques to a pervasive problem in the field of pharmacogenomics. Intensely collaborated with a faculty mentor at the Department of Biomedical Informatics on developing heuristics to automate the extraction of potential drug-drug interaction evidence from the tables of structured product labels. Used Python, R, and mySQL. **Presented University of Pittsburgh Cancer Institute research at the American Medical Informatics Association (AMIA) 2016 Annual Symposium in Chicago.** Published at the AMIA 2017 Joint Summit in San Francisco.

Awards:

- **ASU Sun Award**· ASU Decision Theater Network
  Tied together complex data on educational attainment and workforce on a dashboard for the Arizona Board of Regents.
- **National Merit Scholar** · National Merit Scholarship Corporation
- **H&R Block CAPS Dollars & Sense Scholar** · H&R Block