ADITI KUCHI

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OBJECTIVE & PROFILE

A highly motivated and detail-oriented person with great interpersonal skills.
1+ years' academic experience in Machine learning, data analysis, data science.
Strong leadership and management experience.
Good at multitasking while remaining professional and courteous under pressure.

EDUCATION

Master's in Computer Science   2019
University of New Orleans, New Orleans, Louisiana, UNO

- Concentration: Bioinformatics and Machine Learning

- Related coursework: Agile software engineering, QA and testing, Machine Learning, Computer security, Algorithms, etc.

Bachelor's in Engineering   2016
Jawaharlal Nehru Technological University, Hyderabad, India
Keshav Memorial Institute of Technology, KMIT

- Concentration: Electronics and Communication engineering

- Related coursework: Computer architecture, Operating systems, Digital communication, Signal processing, Electromagnetic theory, VLSI design, Microprocessor and microcontroller programming, etc.

TECH SKILLS AND TOOLS

Python, C Language, MATLAB, R, Tableau, Data Analysis, SQL, Perl, Machine Learning, Deep Learning, Weka, OpenCV, etc.

SOFT SKILLS

Research paper writing, organization and co-ordination of events, editing and re-writing, teaching skills, tabulation and projection of project reports.

TECH EXPERIENCE

Graduate Research Assistant
Bioinformatics and Machine Learning Laboratory, University of New Orleans, USA

- Computer vision – applying advanced machine learning on collected satellite images of fault lines in lake Pontchartrain to detect edges and tectonic plate movements.

- Designed and implemented a novel stacking machine learning method to predict Super-Secondary structures of proteins.

- Co-authored a book chapter on Super-Secondary structures (under review, Dec 2018)

- Prediction of angle fluctuations in proteins using machine learning methods.

- Working on prediction of disorder protein prediction using machine learning.

Graduate Assistant
UNO-CHART, University of New Orleans, USA

- UNO-CHART – University of New Orleans' Center for Hazards Assessment, Response and Technology. Social sciences research and outreach department.
- Repetitive Flood Loss Analysis - Analyzed more than 7000 houses in the New Orleans area to determine their susceptibility to flooding, with very high productivity rates.
- Gathered data about the quality of foundation, presence of HVAC systems, etc. Data is used to create a mitigation guide online, at http://floodhelp.uno.edu and http://ready.nola.gov/rain/

Managing Editor
UNO Driftwood, University of New Orleans, USA.
- Driftwood, the university's weekly newspaper – managing editor and primary contact person for Driftwood.
- Wrote punchy editorials and articles, worked on attracting readership, re-modeling.
- Planned and organized weekly meetings and articles for the newspaper.
- Edited, re-wrote articles submitted by students every week.

Technical Intern
Electronics Corporation of India Limited, Hyderabad, India
- VLSI design
- Designed and implemented a low power and area efficient VLSI designs for common circuits like carry select adders.

Business Intelligence Intern
V2C Enterprises, Hyderabad, India
- Studied and reported market trends in agri businesses and helped develop suitable business strategies
- Gathering price information and generating tables based on day-to-day variations

Web Content Writer
MyTrustedTutor, online website
- Paid article writing on academic topics.
- Wrote well-researched articles on GRE, TOEFL, engineering, career paths, etc.

Other experience and projects
- Internet-based research on agriculture management of large wastelands for power and food sufficiency.
- Research on waste to wealth management technologies of the future
- Home lab-work with father in recovering Manganese from slag
- Undergraduate project: Designed and built a Quad-copter capable of self-sustained flight for use in security surveillance. Configured cost reduction strategies.

NON-TECH EXPERIENCE

Management
- Trained about 200 students and teachers in Model United Nations (MUN) rules and procedures, HPSMUN.
- Part of committee that founded the first MUN in our state (Telangana, India), HPSMUN.
- Managed the organization of 4 cultural and educational fests – coordinated and planned tasks essential to functioning.
- Led a team of students to revive undergraduate school radio, Tarang.

Communication

- Presented and won first place at an inter-school panel discussion on child abuse in India.
- Certified by British Council: Cambridge Business English Communication – Vantage.

Leadership

- Served as Managing Editor of Driftwood, UNO.
- Founder and Editor of undergraduate school e-magazine, kMITRA.
- Served as Editor of High school magazine, Jyothsna.
- Class representative for four years at KMIT.
- Chaired and acted as Director in two Model United Nations.
- Project leader: led 7 colleagues in the engineering department