

Ravali Kommuri
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Summary

- Strong understanding of Machine learning algorithms dealing with event detection applications and solid understanding of Data Modeling, Data mapping, Data Profiling of Data Sources
- Excellent knowledge of all the phases of software development life cycle (SDLC)
- Strong understanding of the programming concepts like paradigms, and pragmatics
- Provided sensor data, analyzed metrics and generated reports that were used at the highest levels of executive management to make security decisions
- Excellent in creating various artifacts for projects which include specification documents, data mapping, data analysis documents and support documentation
- A well-organized, goal-oriented, highly-motivated effective team player with excellent Analytical, Troubleshooting, and Problem Solving Skills

Technical Skills

Database Tools	Oracle SQL Developer 4.x, TOAD 12.x, MySQL Workbench 5.x, MS Excel 2010, MS Access 2010, jQuery
Programming	Python, JAVA, C, C++
Web Technology	HTML, CSS, AJAX, JavaScript
Other Tools	Tensor flow, CASA, WEKA, H2o, MS-Office suite

Education

Masters (2016-present), Computer Science, New Mexico Tech, USA GPA: 3.47/4.00
Bachelors (2012-2016), Instrumentation & Control Engineering, GNITS, India Percent: 80/100

Certification

Robotics & Computer Applications- International Internship May 2015
Mozilla Open Source Certified Cloud Developer May 2015
Robogenesis -Bluetooth workshop- Bluetooth controlled Robot Feb 2015
TSGENCO-Siemens based Data Acquisition system May 2014

Work Experience

National Radio Astronomy Observatory (NRAO)

Research Intern (August 2018 - present)

Responsibilities:

- Research involved in finding patterns by analyzing the reconstructed telescope images
- Optimizing the hyper parameters for Artificial Intelligence models for simulation of Astro-Images with different patterns
- Signal processing involved in classifying various noises in addition to the actual signal
- Strong knowledge of Artificial Intelligence, Statistics and computer programming

Environment: CASA, Python, Tensor flow, MATLAB, JAVA

New Mexico Tech, Computer Science Department

Research/Teaching Assistant (August 2016- present)

Responsibilities:

- Reinforce lessons taught by instructors by reviewing material with students one-on-one or in groups
- Prepared presentations, written reports, documents for meetings with instructor and students
- Generated/created metrics/ad hoc reports/data pulls using MS Access/MS Excel for coursework

Environment: Tensor flow, WEKA, H2o, Python, SQL, C, C++, JAVA

Recent Projects

- Movie Recommendation Software system along with user interface with the Machine learning
- Designed new website for the Graduate Student Association at New Mexico Tech
- Facial Expression Recognition for the security purposes using Machine Learning Techniques
- Forest fire and intrusion detection in smart wireless sensor network using Neural Networks

Activities

Student Volunteer, Climbing club, New Mexico Tech Jan 2018- Present
Information Officer, Graduate Student Association, New Mexico Tech Aug 2017- May 2018
Student Volunteer, Astro-club, New Mexico Tech Dec 2016- Present