

# Alicia Scott

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## DATA SCIENTIST

**Highly analytical individual with collaborative skills and a strong aptitude for learning.** Looking to utilize my education in Theoretical Mathematics and robust work experience in data science to collaborate with a master's program to further my education. With artificial intelligence and natural language processing, great communication skills, and leadership experience, I will expand my knowledge and skill set.

## Current Work Experience

NAVAL SURFACE WARFARE CENTER CRANE — Crane, IN  
**Mathematics and Data Science**, 2018 to Present

Innovative researcher leading a team to implement change across the organization. Improving efficiency with data agnostic artificial intelligence algorithms that are scalable across multiple organization functionalities. Revitalizing the organizational data standards in usage, storage, and visualization using advanced tactics in data mining, processing, and analytics.

### SKILLS AND ABILITIES:

- *Natural Language Processing*
- *Machine Learning*
- *Scripting*
- *Data Visualization*
- *Project Management*
- *Tableau*
- *Data Cleaning*
- *Python*
- *Strategic Partnership*
- *Automation*
- *Process Optimization*
- *Predictive Analysis*
- *Statistical Analysis*
- *Data Management*
- *Human Capital Management*

- **Artificial Intelligence Solutions:** Research and create in-house algorithms, which better use and process existing data faster, are data agnostic, scalable, and easily implementable in current programs.
  - Created a Natural Language Processing algorithm that led to a **13 million percent** efficiency increase; Patent Pending
  - Creating a modular, agnostic algorithm for Data Pre-Processing and Analysis to improve efficiency
- **Data Analytics:** Build visually impactful reports for customer needs to succinctly and thoroughly convey meaning from copious data streams leading to actionable results.
  - Utilized complex data modeling methods to do data analytics, predictive failure analytics, correlation modeling, time series analysis, and other data techniques
  - Creating advanced data visualizations to convey meaning and insight to the customer
- **Data Management:** Clean, organize, and aggregate data into understandable formats for analytical pursuits. Bettering data awareness across the organization to encourage better analytics and reduce duplication of effort.
- **Presentations:** Led conferences presentations, panels, and seminars to disseminate research and teach AI implementation methods for various groups in Department of Defense, Academia, and Industry.

## Previous Work Experience

CONVERGYS ANALYTICS [*AMA Gold Top 50 Research Firm*] — Cincinnati, OH  
**Data Tabulation and Research Specialist**, 2014 to 2018

Highly analytical and system optimization focused data tabulation specialist with an in-depth knowledge of data reconfiguration and research methodologies with large data sets. Deliver qualitative, insight-driven reporting to enhance internal efficiency, advance client business intelligence, and increase overall corporate growth.

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## SKILLS AND ABILITIES:

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- *UNIX Systems*
- *Nawk*
- *Shl*
- *Python / Perl*
- *Bash*
- *Quantitative Methods*
- *Data Warehousing*
- *Quality Analysis*
- *Data Optimization*
- *Research Data Management*
- *Statistical Computing Methods*
- *Experimental Design & Analysis*

- **Data Mining and Reconfiguration:** Promoted to project lead and increased output by **28%** while maintaining or exceeding timeline expectations.
- **Innovations:** Created new ways to solve problems, accomplish tasks, and process data by optimizing code and methodologies in the tabulation role which led to a **12,000%** efficiency increase.
- **Reporting:** Build visually impactful reports for Excel, SAS, Survey Reporter, HTML, and Tableau for data analytics by using 5 programming languages, pivot tables, VLOOKUP, and SQL databases.
- **Managing:** Managed projects and team needs for many concurrent and high maintenance work loads to lead to client success and overall value increase as well as client's customers' satisfaction

INDIANA UNIVERSITY RESIDENTIAL PROGRAMS AND SERVICES — Bloomington, IN

**Residential Assistant, 2011 - 2014**

Used interpersonal communication, multitasking, organization, and resource management to create educational, community, and diversity programs for communities and mediated conflict between students in the University.

- **Leadership:** Created a healthy, safe, and positive living and learning environment for students while leading Resident Assistant teams to drive change in the lives of students
- **Management:** Lead a team of Resident Assistants in large scale educational program design and execution as well as organizing and facilitating the operations management of the building
- **Organizational Partnerships:** Actively sought opportunities to partner with community and university organizations that fulfill mutually-beneficial relationships for students and organizations

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## Education

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INDIANA UNIVERSITY — Bloomington, IN; 2014 • **BS in Theoretical Mathematics** • **GPA: 3.7/4.0**

**Honors:** Indiana University Academic Excellence Scholarship, Indiana University Valedictorian Scholarship, William J. Trospen Scholarship, National Society of Collegiate Scholars