

Mohammed Kamel Almotrafi



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EDUCATION

PhD in Data Analytics University of Sheffield- United Kingdom	Oct 2018 – Oct 2022
MSc in Computer Science University of Missouri- United States	Jan 2015 – Dec 2016
Leadership Diploma University of Missouri- United States	Dec 2015 – Dec 2016
BSc in Information Technology (Hons) Northern Border University-Saudi Arabia	Aug 2008 – Aug 2012

CERTIFICATIONS

Certified KPI Professional The KPI Institute	Jun 2021
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PROFESSIONAL AND ACADEMIC EXPERIENCE

Assistant Professor Northern Border University – KSA Faculty Of Computing and Information Technology Information Systems Department	Oct 2022 – Present
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Research Collaborator Princeton University-United States	Jun 2021 – Present
<ul style="list-style-type: none">Conducted a research project on Network Analysis of Spatial Proximity and Assortative Mixing in Neighborhood Crime Dynamics, analyzing more than 4,000,000 data points.Submitted research findings for publication in <i>Social Network Analysis Journal</i> and presented at the <i>International Conference of Social Network Analysis</i> in July 2021 & 2022.	

Artificial Intelligence Course Consultant Saudi Data and Artificial Intelligence Authority (SDAIA)	Apr 2022 – May 2023
<ul style="list-style-type: none">Lead technical content review for the Future Intelligence Programmers project (In partnership with Bayan and Princess Nourah bint Abdulrahman University).	

Data Science Content Writer and Reviewer The National eLearning Center – Saudi Arabia	Aug 2022 – Oct 2022
<ul style="list-style-type: none">Wrote helpful, accurate, well-organized, consistent, and highly effective content from scratch.Worked with the organization to review and edit documentation throughout the writing process.	

Data Analytics Consultant The University of Manchester (In partnership with the British Council) - United Kingdom	Apr 2022 – Aug 2022
<ul style="list-style-type: none">Identified, aggregated, and analyzed data for engagement in exploratory data analysis and model development.Planned periodic meetings to ensure continuous communication with business owners and data beneficiaries to understand their needs and improvement opportunities to consider in the planning.Used the British Council data for Southeast Asian countries to analyze the network structure and understand how the Council creates a platform for economic power to meet cultural power.	

Data Analyst

Jun 2021 – Aug 2022

American Violence project (New York Crime Data Center)

- Applied statistical analyses to more than 46,000 incidents covering nationwide historical crime data, searching for meaningful insights and validating the results to develop predictive models.
- Developed three distinct models for predicting how mobility flows and similarity in neighborhood attributes foster shooting incidents dynamics in Chicago using Social Network Analysis in Crime data, US census data, and a Mobile Phone Origin Destination (MPOD) dataset.

Digital Strategy Advisor

Jun 2021 – Sep 2021

Confidential

- Assessed current state of a governmental entity, determined data office and IT department needs.
- Architected digital strategy planning and identified 10 initiatives, process improvements and efficiency enhancements to enable expansion plans for new and existing products and processes.
- Spearheaded the creation of a digital development roadmap used to improve the data entry systems to increase the data quality.
- Systematized automated weekly, monthly and quarterly statistics reports, reducing preparation time from weeks to minutes.

Graduate Teaching Assistant of Data Analytics

The University of Sheffield- United Kingdom

Politics and International Relations Department

Oct 2021 - Feb 2022

Module: Political Data Analysis

Data used: BES survey data, Norris's Democracy Cross-national data & 2014 Scottish independence referendum data

Sheffield Methods Institute

Feb 2021 - Jun 2021

Module: Social Data Analysis

Data used: European Social Survey

CORE COMPETENCIES

- Ability to deliver valuable insights via data analytics and advanced data-driven methods
- Understanding and expertise in strategically using technology to enable business strategy
- Cooperate with other data related functions to improve the current products and services
- Participate in the review and evaluation of the sector's achievements and corrective actions
- Skilled in guidance, problem-solving, and conflict management to ensure smooth workflow
- Solid communication skills, seamlessly interface between technical and non-technical teams
- Sound interpersonal and organizational skills with the ability to prioritize and multi-task

SKILLS HIGHLIGHTS

Data Science & Analytics

Data Management Fundamentals

Team Leadership

Analytical Principles & Practices

Predictive Modelling

Data Visualization

Thought Leadership

Requirement Gathering

Primary/Secondary Statistical Data Analysis

Technical Skills: R, Python, Java, SQL, SPSS, Gephi, Excel

CONFERENCE PAPERS AND PRESENTATIONS

Mohammed Almotrafi, Gwilym Pryce and Nathan Hughes

Jul 2021

- *“Network Analysis of Spatial Proximity and Assortative Mixing in Neighborhood Crime Dynamics”*
International Conference of Social Network Analysis, Washington D.C, USA

Mohammed Almotrafi, Gwilym Pryce and Nathan Hughes

Jun 2020

- *“When Crime Rates Move Together: What can we learn from linking neighborhoods by their crime trajectories?”*, The 6th International Conference on Computational Social Science at MIT, Boston, USA

Mohammed Almotrafi and Gwilym Pryce

Nov 2019

- *“Is it possible to cluster similar neighborhood crime trajectories based on the curve shape?”*, 3rd International Conference on Big Data Research, Paris, France

JOURNAL ARTICLES

Mohammed Almotrafi, Gwilym Pryce and Nathan Hughes

Under Review

- *“Network Analysis of Spatial Proximity and Assortative Mixing in Neighborhood Crime Dynamics”*, Social Network Analysis Journal

Mohammed Almotrafi, Gwilym Pryce and Nathan Hughes

Submitted for Publication

- *“When Crime Rates Move Together: What can we learn from linking neighborhoods by their crime trajectories?”*, Journal of Quantitative Criminology

KEY ACHIEVEMENTS

- Awarded as an outstanding PhD student for 3 consecutive years by the Saudi Arabian Cultural Bureau in London.
- Admitted and earned a full scholarship for the Graduate Student Leadership Development Program among 28 students to represent 15000+ graduate students at the University of Missouri.
- Proposed, developed, and wrote a study plan for a Business Intelligence track.
- Trained 100+ postgraduate students on using R for data analysis in quantitative research.
- Gained access to rich datasets needed for a research project after successfully convincing the data owners of the added value of the project.
- Wrote and reviewed 22+ well-organized, consistent, and highly effective Data Science and AI content from scratch.
- Translated and reviewed 15+ case studies on how successful companies used big data analytics to deliver extraordinary results in 9+ sectors.

DATA COURSES and WORKSHOPS

- Social Analytics & Visualization (Fall 2019)
- Text Mining and Analysis (Fall 2019)
- Data Visualization (Fall 2019)
- Social Network Analysis (Fall 2019)
- Advanced Quantitative Methods (Spring 2019)
- Principles of Research Design (Fall 2018)
- Introduction to Quantitative Research (Fall 2018)

VOLUNTEER WORK

Data Analysis Training

Trained 100+ postgraduate students on using R for data analysis in quantitative research.

Equality, Diversity, and Inclusion Officer

Saudi Student Association at The University of Sheffield

Strategic Partnership Committee

Saudi Society for Data Science