Senior Data Scientist

West Midlands Police,  Birmingham, UK

Apply
Ref: 18000084 | Salary: £52,896 – £57,705

Description

West Midlands Police are seeking two Senior Data Scientists to join our newly formed Data Analytics Lab based in central Birmingham.

In this pioneering role you be a key in supporting the development of West Midlands Police’s data science capability.

Here at West Midlands Police (WMP), we serve almost 2.8 million people – making us the second largest police force in England. We are currently overhauling all aspects of the business with WMP2020 – a modernisation plan that is changing the way we operate. With expertise, commitment and dedication, you’ll thrive in this senior role and help to realise our ambitions.

A key component of the WMP2020 transformation programme of work is the Data Driven Insight project, which will provide cutting edge data capabilities to WMP. As part of this work WMP are establishing a data science capability, to provide insight into a range of complex issues the force faces, when preventing crime, protecting the public and helping those in need. The aim is to build a class leading data science capability, which is fully integrated into the organisation and provides mathematically and statistically validated insight to all areas of the business. Ultimately this will help West Midlands Police prevent crime, protect the public and help those in need.

About the opportunity

As the Senior Data Scientist you will report to the Principle Data Scientist and have supervisory responsibility for the labs staff. You will be the expert in your field, be an issue base problem solver specialising in advanced data science techniques who applies the best available practices for AI and machine learning.

As the Senior Data Scientist your key responsibilities will be to:

- Support the delivery of analytics work with analytical modelling.
- Develop, test, implement and maintain analytical models.
• Develop and interpret statistical models.
• Apply appropriate techniques such as exploratory data analysis, regression, bootstrapping, trees etc.
• Determine the optimal modelling approach for each scenario.
• Work closely with data engineers to integrate data from multiple sources.
• Gather, analyse and model data and KPIs to develop quantitative and qualitative business insights via statistical models.
• Parse and manipulate raw, complex data streams; delve into data from system at different timescales, and in complex formats, to discover hidden relationships and useful information.
• Interpret new insights from predictive statistical models, develop strategic recommendations and communicate implications to the business.
• Communicate analytics models and results to non-technical audiences.
• Use both traditional and newer techniques from computational statistics and data mining.
• Lead, coach and mentor your team of Data Scientists.

Qualifications

Your skills, qualifications & experience:

• Substantial experience of practical predictive analytics execution experience.
• A background in advanced analytics.
• Substantial experience in advanced statistics software, for example SAS, R, Python, SPSS.
• Substantial experience of leading advanced modelling techniques with the application of statistics / econometrics to business problems.
• Experience with Big Data technologies such as Hadoop, Cloudera, Hortonworks, NoSQL, Cassandra and Pig.
• Proficient in visualisation analytics technologies for example Tableau and Qlikview
• Substantial experience of consulting with evidence of significant client impact and value creation.
• Experience in a policing context is preferred but not essential.

Preferred Qualifications

• Minimum of Bachelor’s Degree required in a related field; strong preference for fields of study in the computer science, statistics, mathematics, engineering, operations research, economics or similar.
This role will require you to undertake a vigorous and appropriate vetting procedure. If you require further information on this element please contact DCI Richard Evans from the Data Driven Insight project to discuss this further.

WMP is a large and diverse organisation where you can develop your skills, knowledge and career in an encouraging and flexible environment. We’re able to offer you a comprehensive range of rewards and benefits including:

- 28 days annual leave (plus bank holidays); increasing to 33 days after five years’ service.
- Access to a Corporate Health Cash Plan and Wellbeing website.
- An agile modern working environment in central Birmingham.
- The opportunity to save on travel costs through a Corporate Travel Scheme.
- The option to join a generous Local Government pension scheme.

Are you ready to join us?

If yes, we’d like to hear from you.

To apply for this position please click the apply button.

Diversity and Inclusion Vision: “Maximise the potential of people from all backgrounds through a culture of fairness and inclusion to deliver the best service for our communities”

**Closing date: 14 May 2018.**