Consultant to Manager - Data Science and Machine Learning, Defence and Security, SAMA, Consulting

Connect to your Industry

Do you want to be at the heart of some of the biggest and most ambitious programmes undertaken to keep our country safe?
We are proud of the impact we have with our Defence & Security clients, the strength of our relationships, and the variety of our skills and expertise that we bring to help them achieve their mission.

Connect to your career at Deloitte

Deloitte drives progress. Using our vast range of expertise, that covers audit, risk advisory, and consulting services across tax, legal, business, technology and corporate finance, we help our clients become leaders wherever they choose to compete. To do this, we invest in outstanding people. We build teams of future thinkers, with diverse talents and backgrounds, and empower them all to reach for and achieve more. What brings us all together at Deloitte? It's how we approach the thousands of decisions we make every day. How we behave, our beliefs and our attitudes. In other words: our values. Whatever we do, wherever we are in the world, we lead the way, serve with integrity, take care of each other, foster inclusion, and collaborate for measurable impact. These five shared values lead every decision we make and action we take, guiding us to deliver impact how and where it matters most.

Connect to your opportunity

We are seeking committed new talent to join our multidisciplinary Data Science and Machine Learning team within DSSV (Data Science, Simulation and Visualisation), with a focus on our clients in the Defence and Security sector.
Our goal is to work together with our clients to drive innovation and insight from their data, using cutting edge Data Science and Machine Learning techniques alongside Digital Transformation.
As a Consultant in our team, you will:

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- Apply data science and machine learning techniques creatively to solve complex problems
- Research and develop innovative solutions
- Stay abreast in new machine learning techniques and data technologies
- Participate in all phases of the data science lifecycle from PoC to fully tested productionised solutions
- Prepare technical documentation
- Be responsible for the high-quality delivery of key parts of our engagements working with our senior data scientists
- Suggest practical solutions to clients and work to implement these solutions as a part of larger project teams
- Assisting in the crafting of responses to client proposal requests and in pitching data science projects to client
- Develop deep understanding of the Defence and Security sector and the opportunities for transformation from AI & Data

Connect to your skills and professional experience

We are looking for candidates with both technical and business focused skills and experience, who can articulate the outcomes and value of their work.

Essential:
- Hands-on experience of applying data science or machine learning in Defence/Security, wider public sector, or in academia
- Understanding of a range of machine learning architectures and models and their use (Transformers, CNNs, regression, vector embeddings)
- Structured approach to problem solving
- Ability to convey complex and highly technical issues to diverse audiences
- Ability to manage client relationships
- Strong communication skills
- Adaptability of skill set
- Contribute to practice development, including research and developing new propositions and material

It would also be desirable if you have demonstrable experience with a few of the following:
- Experience with Data Science and Machine Learning services and toolkits from Cloud providers (AWS, Azure, GCP)
- Practical experience with Python and the Jupyter ecosystem (Lab, Notebook) and their libraries, norms and tooling
- Familiarity with common Python libraries for data management, statistical analysis, machine learning. visualisation, interactive web front-ends

- Experience with popular machine learning frameworks such as TensorFlow and PyTorch
- Experience using state-of-the-art techniques for Natural Language Processing applications
- Experience using state-of-the-art techniques for Computer Vision applications
- Strong understanding of basic probability concepts such as probability distribution, basic expectation and variance, simple conditional probabilities, Bayes' theorem, combinatorics
- Strong knowledge in the machine learning lifecycle, and in ways to facilitate collaboration and productivity in each of its phases
- Experience with one or more common workflow / pipelining frameworks (Kubeflow, MLFlow, Argo or equivalents)
- Understanding of key considerations for Ethical AI and experience applying them

Connect to your business – Consulting

Distinctive thinking, deep expertise, and collaborative working. That's what connects us. That's what makes us Deloitte. If you want to help solve some of the biggest challenges around, join us. Together, we'll make an impact that matters.

The job force you've provided seems to be a job description for a position at Deloitte in their Data Science and Machine Learning team, specifically focused on the Defence and Security sector. Here's a summary:

Position: Consultant to Manager - Data Science and Machine Learning, Defence and Security, SAMA, Consulting at Deloitte

Overview:

- Deloitte is seeking talented individuals to join their Data Science and Machine Learning team within DSSV, with a focus on Defence and Security clients.
- The role involves applying data science and machine learning techniques to solve complex problems and drive innovation from client data.
- Candidates should have a structured approach to problem-solving, strong communication skills, and the ability to manage client relationships.

Responsibilities:

- Apply data science and machine learning techniques creatively.
- Research and develop innovative solutions.
- Stay updated with new machine learning techniques and data technologies.
- Participate in all phases of the data science lifecycle.

- Prepare technical documentation.
- Deliver key parts of engagements with high quality.
- Assist in crafting responses to client proposal requests and pitching data science projects.
- Develop a deep understanding of the Defence and Security sector.

Required Skills:

- Hands-on experience in applying data science or machine learning in Defence/Security or related sectors.
- Understanding of machine learning architectures and models.
- Structured approach to problem-solving.
- Ability to convey complex technical issues to diverse audiences.
- Client relationship management skills.
- Strong communication skills.
- Adaptability.
- Contribution to practice development.

Desired Skills:

- Experience with Data Science and Machine Learning services from Cloud providers.
- Practical experience with Python and Jupyter ecosystem.
- Familiarity with common Python libraries for data management, statistical analysis, machine learning, etc.
- Experience with machine learning frameworks such as TensorFlow and PyTorch.
- Experience in Natural Language Processing and Computer Vision applications.
- Understanding of key considerations for Ethical AI and experience applying them.

About Deloitte:

- Deloitte drives progress across various domains, including audit, risk advisory, consulting, tax, legal, technology, and corporate finance.
- Deloitte values distinctive thinking, deep expertise, and collaborative working to solve significant challenges.

This job description outlines the role, responsibilities, required skills, and desired skills for the Consultant to Manager position in Deloitte's Data Science and Machine Learning team focused on Defence and Security clients.

Deloitte is a multinational professional services network that provides a wide range of services to clients across various industries. Here's an overview of what Deloitte does:

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1. **Consulting:** Deloitte offers consulting services to help clients solve complex business problems, improve performance, and drive growth. This includes strategy consulting, operations consulting, technology consulting, and more.
2. **Audit and Assurance:** Deloitte provides audit and assurance services to help clients maintain transparency, accountability, and integrity in their financial reporting processes. This involves assessing financial statements, internal controls, and compliance with regulatory requirements.
3. **Tax Services:** Deloitte offers tax advisory and compliance services to help clients navigate the complexities of tax regulations and optimize their tax strategies. This includes corporate tax, international tax, indirect tax, and personal tax services.
4. **Risk Advisory:** Deloitte's risk advisory services help clients identify, assess, and manage risks across their business operations. This includes cybersecurity, regulatory compliance, internal audit, and enterprise risk management.
5. **Financial Advisory:** Deloitte's financial advisory services assist clients in areas such as mergers and acquisitions, corporate restructuring, forensic investigations, and dispute resolution.
6. **Legal Services:** Deloitte provides legal services to help clients address legal challenges and opportunities in areas such as corporate law, employment law, intellectual property, and regulatory compliance.
7. **Technology Services:** Deloitte's technology services help clients leverage emerging technologies to drive innovation, improve efficiency, and transform their business operations. This includes digital transformation, cloud computing, cybersecurity, and data analytics.

Overall, Deloitte works closely with clients to understand their unique challenges and objectives, offering tailored solutions and insights to help them succeed in a rapidly changing business environment.