

Competence Profile		Competence levels by stage					
Job stages:		4	5	6	7	8	9
<b>Job role competences (ability to)</b>							
Perform Data science leadership	-	-	B	B	C	D	
Synthesize problems into data question(s)	-	-	B	B	B	C	
Decide approach for data science	-	-	B	B	C	C	
Design & perform data science experiment	A	B	B	B	C	C	
Develop Data Science Infrastructure&Tools	T	A	A	B	B	C	
Convert data into actionable insights.	B	B	B	B	C	C	
Act in external relations	T	A	A	B	C	C	
<b>Ericsson wide knowledge &amp; skills (from own Functional Area)</b>							
Project Management Skills	-	B	B	B	C	C	
Change&Improvement Management Skills	-	-	-	B	C	C	
<b>Ericsson wide knowledge &amp; skills (other Functional Areas)</b>							
Ericsson Knowledge		B	B	B	B	C	
Knowledge Sharing & Collaboration Skills	A	A	B	B	C	C	
Customer Insight	T	T	A	B	B	C	

**Purpose of Job Role**

Responsible for developing scientific methods, processes, and systems to extract knowledge or insights to drive the future of applied analytics.  
 Provide thought leadership, perform Advanced Statistical Analytics, and create insights into data to provide to the business actionable insights, identify trends, and measure performance which address business problems.  
 Collaborate with business and process owners to understand business issues, and with engineers to implement and deploy scalable solutions, where applicable.

**Typical Interfaces**

- Customers
- Data scientist community
- Management, decision makers
- Functional experts, business process owners
- Business analysts
- Technology managers
- Data engineers/ analysts
- Solution Architects
- Partners and vendors

**Tools & Resources**

Knowledge of statistical analysis, probability theory, design of experiments and machine learning.  
 Latest technology landscape; Programming languages i.e. R, Python; Distributed computing paradigms such as different distributions of Hadoop, Spark; High performance computing paradigms.  
 Acumen for business flow understanding and expertise in data preparation and pre-processing.  
 IT tools involved in solution development, deployment and operations process ex – PPM, BMC, My Support, ALM, EriDoc, Ericoll.

**Behavioral Competences**

- Creating & innovating
- Learning and Researching
- Applying expertise and technology
- Analyzing
- Presenting & communicating information
- Persuading & Influencing

**Applicable process connected to Job Role**

Need- to- Solution value flow, XLPM – The project model for all IT projects within Ericsson

**Qualifications and Experience**

[Link to global job stage descriptions –Support Functions](#)

Document Title

## Data Scientist

Prepared (also subject responsible if other)	Checked	Approved	Date	Rev	Document name
EKALBED Kalyana Chakravarthy Bedhu		BMASBKDA [Hellen Malmberg]	2019-05-06	D	JOB ROLE DESCRIPTION
	Reference	Security Class	No		Sheet
		Ericsson Internal	BNES-17:033292 Uen		1 (5)

- A Master's or higher degree in Computer Science, Statistics, Mathematics, or related disciplines
- Evidence of academic training in Statistics
- Deep/broad knowledge of machine learning, statistics, optimization, or related field
- A genuine interest in new and applied technology and software engineering coupled with a high degree of business understanding
- Any applied research contributions to the community in terms of technical papers and patents, are encouraged

**Portfolio Knowledge & Skills**

Analytics Portfolio

**Future Trends & Concerns**

Data science is an emerging area that is expected to mutate, consolidate, and grow. It is important to adapt to ever changing technology landscapes and constraints in ways of working with in large organizations.

Note: The competencies to be exhibited to one of the following levels:

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					Sheet
					2 (5)

Responsibilities						
Perform Data science leadership	Supervise Data Scientists, students and introduce new employees to Ericsson ways of working	Be a coach for other Data Scientists. Lead and direct a team of data scientists and engineers	Lead projects/Programs either as a project/program manager or technical coordinator. Improve data science WoW and leadership	Communicate technology leadership.	Define data product strategy and roadmap. Set the project program/project portfolio	Develop processes and methodologies for envisioning data science as a practice
	6,7,	7,8,9	8,9	7,8,9	8,9	9
	Provide thought leadership on defining advanced analytics areas. Improve WoW					
	9					
Synthesize problems into data question(s)	Understand the Data Science process and ways of working	Participate in understanding and brainstorming a business scenario and available data to arrive at hypothesis. Use case creation from data.	Lead/Drive creation of business scenarios and available data to arrive at hypothesis. Use case creation from data, understand architectural impacts of proposed use cases	Scope and identify success criteria and inputs needed for the analysis.	Data sources and approaches for wrangling data and creation of data pipelines	Analyze and recommend design considerations for scalability, performance, streaming and algorithmic complexity of the solution components
	4,5,6,7,8,9	5,6,7,8	7,8,9	6,7,8	6,7,8,9	6,7,8,9
Decide approach for data science	Explore the data in tandem with business owners to find probable features and further needs of inputs	Feature engineering and feature selection or engineering network architecture	Selection of hypothesis set and evaluation of alternatives			
	7,8	6,7	6,7			

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	Ericsson Internal	BNES-17:033292 Uen	3 (5)		

Responsibilities						
Design & perform data science experiments	Experiment design and approach for analytical solution under supervision	Experiment design and approach for analytical solution	Specifying techniques for validation and ensuring repeatability in results	Practice data science using state of the art methods. Create, review, publish approaches for problem solving, resultant models, outputs, and opportunities for further research	Document the Research results in reports, presentation, publications and standardization contributions.	Initiate and secure transfer of competence and technical results from the work executed to operational business systems
	4,5	6,7,8	6,7,8,9	6,7,8,9	6,7,8,9	6,7,8,9
Develop Data Science Infrastructure & Tools	Understand available data infrastructure, ability to use state of the art tools in data science.	Introduce new employees to available data infrastructure. Coach others to improve data science experiments to fully utilize available resources.	Investigate and explore new possibilities in data science infrastructure and tools	Participate in evolution of data science infrastructure and tools for Ericsson Data Science environments	Drive evolution of data infrastructure and tools for Ericsson Data Science environments. Contribute to cross Ericsson data infrastructure initiatives	Drive cross Ericsson data infrastructure initiatives
	4,5	6,7	6,7,8,9	5,6,7,8	6,7,8,9	7,8,9
Convert data into actionable insights	Understand data science process and ability to implement end to end data science solutions	Drive data science processes and coach others in implementing end to end data science solutions	Participate in backlog prioritization discussions. Enhance data collection procedures relevant for building analytics solutions	Create a knowledge base of use cases and approaches for them to be accessible to larger community of practitioners	Liaise with stakeholders on their data science roadmaps	Influence stakeholders to integrate insights into operational processes or products
	4,5,6	6,7,8	7,8,9	7,8,9	7,8,9	8,9
Act in external relations	Contribute as co-author to external publications to demonstrate Ericsson technical leadership for customers and research society.	Participate in external data science collaborations.	Be the main author to external publications to demonstrate Ericsson technical leadership for customers and research society.	Be data science contact in international fora and towards customers	Define Ericsson part of international collaboration projects and customer collaboration projects within own data science	Be an authority within area of work Be Ericsson Spoken person/ Representative in Analytics Fora
	5,6,7,8	7,8,9	7,8,9	8,9	8,9	9

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Ericsson Internal

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Responsibilities						
	Be an authority within ICT industry					
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## Revision history

Rev A	2017-06-xx	First release

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