**Commonwealth Bank of Australia**

**Sr. Data Engineer**

You will be expected to perform the following tasks and responsibilities in a manner consistent with CBA's Values and People Capabilities.

**Core Responsibilities**

* Understand our customers' core business objectives and build end-to-end data centric solutions to address them
* Contribute to thought leadership enabling analytics teams to deliver world class data centric solutions and analytics by championing sustainable and re-useable data products
* Participate in the full lifecycle of agile projects (ideation through implementation)
* Design and build group data products by integrating diverse data from hundreds of internal and external sources
* Help to promote good coding standard and practices to ensure high quality and minimum risks
* Support the design and construction of large-scale automated machine learning and data mining
* Provides team leadership and mentoring to others in project team and other Technical BAs.
* Your ability to collaborate with peers along individuals with different experiences and backgrounds is key.

**Skills**

* **Problem solving** – advanced conceptual, analytical and problem-solving skills to analyses complex information for key insights and present as meaningful information to senior management
* **Communication** – expert oral and written communication skills with ability to lead discussions with a varied stakeholder across levels
* **Risk Mindset** –All CommBank employees are expected to proactively identify and understand, openly discuss and act on current and future risks.

**Experience**

* As we operate both a traditional Data Warehouse (Teradata) and a Big Data platform (Hadoop / Spark) alongside each other we are looking for candidates who are able to work in both worlds or who are strong in a particular area and would like to learn the other.

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| **Required Skill/Experience** | **Level** |
| Able to build solutions that are fit for purpose, perform well with large data volume and complex data transformation rules, and reliable to operate. | Expert |
| Understanding of ETL processes and practices (ideally having implemented an ETL system before) | Advanced |
| SQL & Relational Databases | Advanced |
| Data structures including time variant and dimensional models, algorithms, operating systems, and/or distributed systems. | Advanced |
| Map Reduce / Big Data concepts | Advanced |
| Columnar stores | Sound |
| Communication and presentation skills | Advanced |
| Programming skills in a least one language used in the BigData space e.g. Java, Python | Advanced |
| Knowledge of building ML / Deep Learning systems | Sound |
| Ability to use Linux / Unix environments for development and testing | Sound |
| Shell Scripting experience | Sound |

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| * **Desirable Skill/Experience** |
| * Teradata |
| * Big Data experience (Hadoop / Spark) |
| * Advanced Experience with Scala and / or functional programming |
| * Experience delivering fast paced, agile, cross discipline projects |
| * Domain experience in consumer finance, banking |
| * Deployed ML / Deep Learning models into production |
| * Additional scripting skills in at least one other language: Python, Perl, JavaScript, Shell scripting |

**Qualification**

* Bachelors in CS, Mathematics, Statistics or equivalent quantitative discipline or comparable industry experience
* Experience in or building frameworks associated with Machine Learning, data mining, data warehousing and decisioning production systems (tools & services)

**Desirable**

* Masters in CS, Mathematics, Statistics or equivalent quantitative discipline or comparable industry experience
* Specialties: Data warehousing, Big Data, ETL Tooling, CI/CD, Analytics, AI, Machine Learning, AWS /Cloud Services
* Experience in Design (Mapping specifications, HLD, LLD), Development (Coding, Testing) using Ab Initio
* Additional industry or product certification