

Data Analyst


ESTIMATED TIME HORIZON:
 Medium- to Long-term*

Trends impacting this role

- AI & Big Data
- Internet of Things
- Manufacturing analytics

Other considerations

- For SMEs, a single headcount may be sufficient for managing data across multiple functions
- Larger companies may consider a dedicated Data Analyst per function to manage and analyse function-specific data

Responsibilities of the role

The Data Analyst will assist primarily Production function with preprocessing, modelling and analysis of data from a wide variety of datasets to generate insights and enable informed business and operational decisions. The job holder will also need to use development tools to generate reports and dashboard on production performance. Proficiency in data analytics tools and awareness of emerging trends is key.

Job Tasks

- Work closely with different functions, primarily the Production team, to understand business objectives and translate them into analytics requirements and parameters
- Collect and organise data from internal sources (e.g., IoT-enabled machinery, enterprise system) and external sources (market research or public data) on Food Manufacturing, as well as perform data validation and quality control checks to prepare data for analysis
- Analyse manufacturing data such as production yield, quality and productivity to identify data relationships, patterns and trends to gain important insights that support decision making
- Translate data analyses into actionable insights using dashboards and visualisation tools, and present findings to relevant stakeholders from different functions. Adopting a data-driven perspective, the job holder will propose recommendations for decision making, planning and strategy development
- Contribute to continuous improvement by staying abreast of new and emerging technologies and incorporate relevant ones to improve reporting, including suggesting and implementing any fields or improvements that could be made in systems for capturing the data needed for reporting

Technical Skills (TSC) Required

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|----------------------------------|---------------------------------------|
| • Big Data Analytics | • Data Synthesis |
| • Business Environment Analysis | • Infographics and Data Visualisation |
| • Continuous Process Improvement | • Internet of Things Management |
| • Data Analytics | • Machine Learning |
| • Data Analytics System Design | • Programming and Coding |
| • Data Engineering | • Project Management |
| • Data Governance | • Stakeholder Management |
| • Data Strategy | • Technology Application |

Critical Core Skills (CCS) Required

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| • Collaboration | • Communication | • Creative Thinking |
| • Problem Solving | • Sense Making | |

*Estimated timeline of demand for emerging job roles (Short-term: Current to 2 years | Medium-term: 2 to 5 years | Long term: Beyond 5 years)