



## Master Thesis: Data Analytics - Key differentiating features analysis of the product portfolio (f/m/div)\*

### Job description

You are passionate about data analytics and have a desire to make faster and better decisions? At Infineon's Power & Sensor Systems (PSS) division we are looking for a data-savvy team player to leverage data analytics for strategic decision making. Have you already gained first practical experience in tasks such as data extraction, data mining and machine learning and want to get deeper insights into a multinational high-tech company that is a driver of innovation across many industries? Then, a thesis with us is a great opportunity for you! You will have the chance to participate in our PSS division's Center of Competence for Analytics and closely collaborate with and learn from team members. You will gain first-hand experience by contributing to several aspects of a systematic approach to improve market intelligence and trend detection. Are you interested? Then don't hesitate and apply now. We are looking forward to you.

#### Thesis Topic:

Understanding the value proposition of our products and those of our competitors in a dynamic and fast paced market is essential for the development and strategic planning of future products. What are the main "value drivers" that specific products are offering and can you identify a systematic approach to identify these? What role do machine learning and other AI frameworks play? In your new role you will:

- Review and summarize related literature
- Develop, test and evaluate **solutions for analytics use cases** from **data collection** and **preprocessing**, including **knowledge extraction** all the way to visualization of insights
- Directly communicate with relevant stakeholders
- Identify and implement relevant AI frameworks
- Contribute to the **strategic product design with systematic approach and analytics-based** approach at our PSS division

You have excellent analytical skills as well as a clear understanding of how data analytics creates value-add in strategic business decisions. With your creative and solution-oriented mindset, you think outside the box and are always eager to try out new concepts and improve. **Your self-driven** entrepreneurial spirit makes you comfortable with a high degree of freedom while executing tasks. You are enthusiastic, have very good interpersonal, communication and presentation skills and work in a structured and methodical manner.

### Profile

### At a glance

Location: **Munich (Germany)**  
Job ID: **360985**  
Start date: **Sep 01, 2022**  
Entry level: **0-1 year**  
Type: **Full time**  
Contract: **Temporary**

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### Contact

**Annika Wimmer**  
Student Attraction Manager



You are best equipped for this task if you:

- **Study statistics, data science, mathematics, computer science** or a similar field with **excellent results**.
- Already gained **relevant experience in the implementation of machine learning projects** including e.g. data curation, communicating with counterparties, and data visualization
- Are familiar with **theoretical concepts of machine learning** and **data mining**, f.e. which problem can be solved with which **type of algorithm** and what their **limitations** are
- Possess good skills in **analytics software/tools** as well as in **programming languages** such as **Python, R, Jupyter Notebook**
- Have **good communication skills in English**; for foreign applicants, good knowledge of German is a plus

Please attach the following documents to your application:

- Cover letter in English or German
- CV in English or German
- Certificate of enrollment at university
- Latest transcript of records
- Bachelor's certificate
- High school certificate

## Benefits

- **Munich:** Coaching, mentoring networking possibilities; Wide range of training offers & planning of career development; International assignments; Different career paths: Project Management, Technical Ladder, Management & Individual Contributor; Flexible working conditions; Home office options; Part-time work possible (also during parental leave); Sabbatical; On-site creche and kindergarden with 120 spots, open until 6pm; Holiday child care; On-site social counselling and works doctor; Health promotion programs; On-site gym, jogging paths, beachvolleyball, tennis & soccer court; On-site canteen; Private insurance offers; Wage payment in case of sick leave; Corporate pension benefits; Flexible transition into retirement ; Performance bonus; Reduced price for public transport and very own S-Bahn station; Access for wheelchairs

## Why Us

**Part of your life. Part of tomorrow.**

Infineon is a world leader in semiconductor solutions that make life easier, safer, and greener. Our solutions for efficient energy management, smart mobility, and secure, seamless communications link the real and the digital world.

**–Power & Sensor Systems (PSS) drives leading-edge power management, sensing, and data transfer capabilities –**

Infineon PSS semiconductors are enabling intelligent power management, smart sensitivity, and fast, reliable data processing in an increasingly digitalized world. Our state-of-the-art power and connectivity devices make chargers, servers, mainboards, power tools, and lighting systems smarter, smaller, lighter, and more energy-efficient. In addition, our trusted sensors give things an intuitive sensing capability to make them contextually aware, and our RF chips support fast and reliable data communications.

*\* The term gender in the sense of the General Equal Treatment Act (GETA) or other national legislation refers to the biological assignment to a gender group. At Infineon we are proud to embrace (gender) diversity, including female, male and diverse.*

