



## **Data Science Intern**

### **About ResMed**

ResMed is a global leader in sleep and respiratory care, transforming lives with innovative products and technologies. We empower people to take control of their health and live the best lives they can. It began over 35 years ago with the invention of a machine that helped people breathe easier and sleep better. And it continues today with digital health solutions that help keep people out of the hospital. Our mission is to create life-changing health technologies that people love.

### **Let's talk about the team and you**

The Data Science intern and AI/ML platform team collaborates across the organization to identify, develop and deliver Artificial Intelligence (AI) and Machine Learning (ML) powered software solutions that improve patient outcomes, delight our partners and customers, and improve the way we do business in an "AI First" fashion. On any given day, the team could be working on building sophisticated models to delivering personalized recommendations to patients to improve their sleep, identify optimal equipment and settings using our unparalleled store of billion+ nights of sleep data, proactively identify other health risk factors, or help optimize complex, global supply chain operations.

The Data Science intern will undertake applied research and development in the areas of data science and biomedical informatics, and operations research, using the latest technologies in machine learning and distributed computing. The platform and algorithms developed may be used in a range of diagnostic and therapeutic applications, such as sleep disorder breathing, chronic obstructive pulmonary disorder, and other respiratory disorders, as well as co-morbidities such as congestive heart failure and diabetes and chronic disease management.

### **Let's talk about the Role**

We are seeking enthusiastic and motivated Data Science Interns to join our dynamic team. This internship is designed for students looking to gain hands-on experience in applying data science techniques to real-world challenges. You will work on meaningful projects, collaborate with experienced professionals, and gain insights into the end-to-end data science lifecycle.

### **Let's talk about the Responsibilities**

- Assist in data collection, cleaning, and preprocessing for various projects.
- Research, customization, and development of statistical and machine learning algorithms to meet the project requirements; tasks include defining hypotheses, executing necessary tests and experiments, evaluating, tuning and optimizing algorithms and methods to specific situations.
- Develop and deploy machine learning models to solve business problems.
- Perform data analysis and visualization to derive actionable insights.
- Collaborate with cross-functional teams, including engineering, product, and business teams.
- Stay updated on the latest data science tools and technologies and share knowledge with the team.



- Document and present your findings, models, and recommendations to stakeholders.

### Required Skills

- Proficient in statistical analysis methods, including analysis of variance, regression, time series analysis, survival analysis, etc.
- Proficiency in Python or R for data analysis and modeling.
- Good understanding of statistics, probability, and machine learning algorithms.
- Basic understanding of data visualization tools like Matplotlib, Seaborn, or Tableau.
- Familiarity with SQL and working with relational databases.
- Knowledge of libraries/frameworks such as Pandas, NumPy, Scikit-learn, TensorFlow, or PyTorch.
- Good analytical and problem-solving skills.
- Excellent communication and teamwork abilities.

### Preferred Skills

- Understanding cloud platforms (AWS).
- Familiarity with big data tools like Spark, Hadoop, etc.
- Understanding of NLP, Computer Vision, or Time Series Analysis.
- Knowledge of version control systems (Github).

### Let's talk about what you can expect

- Mentorship and training from experienced data scientists.
- Hands-on experience with real-world projects.
- Exposure to the latest tools and technologies in data science.
- A collaborative and inclusive work environment.

