

## Careers

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# Data Analyst - Energy Fleet Analytics (Melbourne)

# BUILD THE FUTURE

**Job Category** Operations & Business Support

**Location** Cremorne, Victoria

**Req. ID** 66443

**Job Type** Full-time

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## Case Studies in Data Science

## COSC2669

## Rashbir Singh Kohli

## S3810585

### The Role

We're the Energy Service Analytics team, a central team to maximize and leverage the data we collect. We help engineers through direct support by doing data analysis for them and through applications and tools so they can self-serve those analyses in the future. To do so, we leverage the internal big data platform that is built on top of HDFS, Spark, Presto and HBase and data science tools such as Jupyter notebooks, Pandas, Bokeh, Superset and Airflow. Half of your time will be dedicated to hands-on data analysis for Energy Operations, while the other half will be spent building data pipelines, tools and applications to automate those analysis.

### Responsibilities

- Work with stakeholders to take a vague problem statement, refine the scope of the analysis, and use the results to drive informed decisions
- Write reproducible data analysis over petabytes of data using cutting-edge open source technologies
- Understand and apply reliability concepts in your data analysis
- Summarize and clearly communicate data analysis assumptions and results
- Build data pipelines to promote your ad-hoc data analyses into production dashboards that engineers can rely on
- Design and implement metrics, applications and tools that will enable engineers by allowing them to self-serve their data insights
- Work with engineers to drive usage of your applications and tools
- Write clean and tested code that can be maintained and extended by other software engineers
- Operate and support your production applications
- Keep up to date on relevant technologies and frameworks, and propose new ones that the team could leverage
- Identify trends, invent new ways of looking at data, and get creative in order to drive improvements in both existing and future products

## Requirements

- Degree in Statistics, Econometrics, Computer Science, Physics, or a related quantitative field
- Strong proficiency in Python, SQL
- Deep statistical skills such as utilized in A/B testing, analyzing observational data, and modeling
- Experience building data visualizations
- Experience writing software in a professional environment
- Strong verbal and written communication skills
- Strong problem-solving skills to help refine problem statements and figure out how to solve them with the available data
- Smart but humble, with a bias for action
- Experience with data science tools such as Pandas, Numpy, R, Matlab, Octave preferred
- Experience building data pipelines preferred
- Experience building web applications preferred
- Experience building machine learning models in a professional environment preferred
- Experience with continuous integration and continuous development preferred
- Experience in devops, i.e. Linux, Ansible, Docker, Kubernetes preferred
- Understanding of reliability concepts (Weibull, Lognormal, Exponential, etc.), life data (or survival) analysis, and reliability modeling preferred
- Understanding of distributed computing, i.e. how HDFS, Spark and Presto work preferred
- Proficient in Scala preferred

APPLY



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## About Tesla

Tesla is accelerating the world's transition to sustainable energy. We design, manufacture, sell and service the world's best solar technology, energy storage systems, and electric vehicles, providing customers the opportunity to generate, store and consume energy entirely sustainably.

Tesla is committed to hiring and developing top talent from around the world for any given discipline. Based in California, Tesla's workforce spans across four continents. We work to build an inclusive environment in which all people, regardless of gender, race, religion, or background, can come to do their best work.

Our world-class teams operate with a non-conventional philosophy of inter-disciplinary collaboration. Each member of the team is expected to challenge and to be challenged, to create, and to innovate. We're tackling the world's most difficult and important problems—and we wouldn't succeed without our shared passion for making the world a better place.

### Learn More About Tesla

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