



# JOB DESCRIPTION

## Data Scientist

### About Us

We're a rapidly growing tech company based in Sydney's Barangaroo district, specialising in building scalable AI solutions for enterprise clients. We value academic rigor and scientific methodology while embracing the dynamic nature of startup culture.

### The Candidate

We're seeking an established post-doc or recent PhD graduate to bring their curiosity, and passion for knowledge to the commercial space. The candidate should have strong analytical skills and deep experience in machine learning. Main duties will include analysing structured and unstructured datasets, training machine learning models, developing agentic workflows using LLMs, and assisting to deploy these models/workflows into production. Additionally, working with data engineers to communicate requirements for data formatting when productionising new models and visualisations. Creative thinking and initiative are key qualities that are required. This role offers a unique opportunity for academics looking to transition their expertise into industry. No previous commercial experience is required.

### Why This Role Is Different

- Published research experience is considered a strength, not a gap
- Maintain the intellectual rigor of academia while seeing your work directly impact industry
- Freedom to apply theoretical frameworks to solve real-world challenges

### Requirements & Core Skills

#### Python

- Advanced/expert at functional programming
- Ability to write reusable code with Numpy, Pandas/Pyspark, and Scipy.
- Version control using a remote repository (e.g. Github)
- Ability to create high quality impactful visualisation that show a clear message to a non-technical audience.
- Knowledge of code optimisation, class structures, and software engineering best practices.



## SQL

- Familiarity with standard query structures.
- Ability to partition tables
- Knowledge of order of query execution for optimisation

## Nice to Haves

- Unix CLI proficiency
- Cloud computing (Azure, AWS, or GCP) experience
- Knowledge of ML concepts
- Feature engineering experience
- Experience with standard ML algorithms (linear regression, GBMs, NNs)
- Graph network analysis experience
- Behavioural clustering experience

## Ideal Candidate Profile

### We're particularly interested in candidates who:

- Hold a PhD in any related subject
- Are lead author on multiple published articles in gold tier journals
- Demonstrate strong statistical theoretical foundations
- Have an entrepreneurial drive

## Culture and Environment

### What We Offer

- Professional development budget
- Fast-paced environment with direct impact on product development
- Continued connection to academic research through:
  - Conference attendance and presentation opportunities
  - Potential for publishing industry research
  - Collaboration with academic institutions

### Work Arrangement

- Hybrid
- Location: Sydney Barangaroo
- Modern office with excellent facilities

Submit CV and cover letter to [dan@traffy.ai](mailto:dan@traffy.ai) to apply

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