Callum D.J. Reekie

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📍 Cambridge, UK

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TECHNICAL SKILLS

Python
JavaScript
SQL (PostgreSQL)
HTML
R Studio
Unix commands
Pandas
NumPy
Matplotlib
Sci-kit learn
Keras (TensorFlow)
SPSS

SOFT SKILLS

Leadership
Communication
Problem solving
Teamwork
Critical thinking

COURSES AND AWARDS

2020 Machine-learning workshop, Spectra Analytics, London
2019 Data Science in Python, Cambridge Researcher Training
2016 Cambridge Trust Scholar, University of Cambridge
2014 Laidlaw Scholar, University of St. Andrews

Industry-trained data scientist with experience in developing machine-learning and UI applications to deliver valuable insights from complex datasets. Comfortable applying Ph.D.-level critical reasoning and numerical skillset to complex AI challenges.

EXPERIENCE

01-2020- 04-2020	**Data Science Internship** Spectra Analytics, London

- ◉ Competitive 3-month internship in company developing AI solutions for a diverse client base; experience in full-stack development and ML workflows; 3 major projects including experience of Git, Jira

- ◉ **NLP-based deep-learning model**: military contractor client; required NLP for multi-classification of radio communications; solely trained a variety of simple (Bayesian, RF) and deep-learning based (LSTM in Keras) models; NLP pipeline development, word embedding (e.g., Word2Vec), NLTK; drafted report of progress for stakeholders

- ◉ **Health-care web-app**: contributed to development of health-care app rolling out in GPs across UK; use of JavaScript, Python, PostgreSQL, Flask, SQLAlchemy; reported to stakeholders

- ◉ **Military mapping application**: developed JavaScript Vue application for integrating geographical information into a web-app; experience of Docker; model will be integrated into deep-learning model for client use

EDUCATION

10-2016- 10-2020	**Ph.D. Earth Sciences** Trinity College, University of Cambridge

- ◉ Chemistry-based Ph.D.; part focus on developing novel machine-learning methods for characterising complex X-ray waveforms

- ◉ Numerical/statistical analysis and data processing/visualisation using Python (competent with NumPy, SciPy, Pandas, Sci-kit learn, Matplotlib)

- ◉ Funded by competitive scholarship (Cambridge Trust) awarded for academic excellence

- ◉ Presentations to >100 people at international conferences; internal reports and 4 publications in high IF journals

2011- 2016	**M.Geol. (Hons) Earth Sciences** (1st class) University of St. Andrews

- ◉ Leadership skills recognised by competitive Laidlaw Scholarship

ADDITIONAL ACTIVITIES

- **Charity outreach**: co-president of Sakhya Cambridge; support management and distribution of funds to charitable projects in India

- **Hillwalking/mountaineering leadership**: Safety Officer for Uni. Of Cambridge Hillwalking Club in 2017; co-led field expedition to Greenland in 2015