

Job Description & Person Specification

Professional Services and Senior Manager (excluding VCE) roles

JOB DESCRIPTION

Job title	Data Scientist (KTP Associate)
School/Department	School of Computing Engineering & Physical Sciences
Location	Greenock
Reporting to	Prof. Keshav Dahal (Lead Academic, and Knowledge Based Supervisor) and Lyndsey James-Williams (Company Supervisor)
FTE	1

Job summary

PG Paper is a multi-award-winning business based in Scotland and operating in over 60 countries across the globe.

Founded in 2003, PG Paper conducts international trade in packaging, paper and forest products; creating markets and enabling trade by providing full-service package of financing, shipping, risk-management and marketing. With over 20 years of successful business development expertise and offices strategically located in over 8 countries globally, PG Paper provides an efficient gateway for both suppliers and customers to reach global markets.

Recognised by the Chamber of Commerce for Export Innovations, PG Paper is an entrepreneurial and dynamic company that has grown rapidly, entering new markets and moving into new products, in the ever-changing environment of global trade.

PG Paper and the University of the West of Scotland are embarking on an exciting project to transform operational efficiency and drive their service-level through the development of a novel Machine Learning and AI capability.

The successful candidate will be employed by the University of the West of Scotland but will be based at PG Paper Head Office in Greenock. The associate will be fully supported by both company staff and staff from the School of Computing, Engineering & Physical Sciences at the University and will receive a £4k personal development budget.

In addition, the associate will receive mentoring support from a local KTP Advisor. We are the only Scottish University to have a dedicated KTP centre, meaning you are fully supported throughout your time with the company by UWS staff.

This Knowledge Transfer Partnership (KTP) project between PG Paper and the University of the West of Scotland (UWS), will deliver scalable and explainable data analytical capabilities to develop actionable insight to PG Paper's client engagement, retention, and experience processes. The project focuses on developing end-to-end data science pipeline, extracting information from company's in-house data stores, historical records, and external data sources, to deliver data-driven decision-making whilst maximising returns for the company. The capabilities embedded from this project, will help to achieve profitable engagement strategies driven by data, and come up with situation centric models having potential to positively transform operations for PG Paper.

The Associate will receive regular supervision from an academic supervisor at UWS and Company supervisor from PG Paper

People & finance responsibilities

People	None
Finance	Budget allocated for consumables and training.

Key responsibilities

- Assessment of existing CRM platform highlighting its current capabilities and identifying workstreams to support KTP project objectives.
- Scalable Data Architecture & Automated Data Pipeline Development for action-able insight to match making process.
- Data Governance & Compliance with data privacy regulations (e.g., GDPR, CCPA).
- Manage and integrate databases, ensuring secure, well-structured, and easily retrievable data for analysis and decision-making.
- Development of Machine Learning and AI capabilities to process CRM data.
- Integration CRM data with external data sources to develop data driven decision making.
- Project pilot for controlled testing, validation, and enhancements.
- Release data analytics capabilities in a production environment
- Final Report & Publications.

Job scope

Planning and organising	The KTP Associate will work under the direction of the Knowledge Base Supervisor (Prof. Keshav Dahal) and the Company Supervisor (Lyndsey James-Williams). The post holder will be responsible for planning aspects of their work and will be responsible to producing monthly progress reports for the team as required. The post holder will also be responsible for managing project activities and organising meetings with key project stakeholders during the project.
Working relationships	The Associate will be required to regularly liaise with key representatives from the University and PG Paper in the pursuit of the objectives of the project. The main contacts at UWS will be Prof. Keshav Dahal (Lead and Knowledgebase Supervisor) and Dr Raman Singh (Academic Support). The main contacts at PG Paper will be Lyndsey James-Williams (the company lead and supervisor). This position offers an exceptional career development opportunity working within a fast-growing company locally and an Internationally renowned academic team based at the University of the West of Scotland.

PERSON SPECIFICATION

Qualifications

			Evidence A = Application I = Interview
Essential	QE1 QE2	<ul style="list-style-type: none"> Minimum of MSc (2:1) in Computer / Data Science, Electronic Engineering and having equivalent research and development experience. 	
Desirable	QD1 QD2	<ul style="list-style-type: none"> Membership of appropriate professional body. Working towards or achieved Chartered Status Scientist/ Engineer. 	

Experience

			Evidence A = Application I = Interview
Essential	EE1 EE2	<ul style="list-style-type: none"> Experience on Data Architecture & Pipeline Development. Ability to design and implement scalable data architectures, automated data pipelines, and workflows to collect, process, and store data for future use, ensuring data quality and accessibility. Experience on Data Governance & Compliance with data privacy regulations (e.g., GDPR, CCPA) by establishing governance processes, including data retention, encryption, and access control. Experience on database management. Ability to manage and integrate databases, ensuring secure, well-structured, and easily retrievable data for analysis and decision-making. Experience in development and application of Machine Learning (ML), Deep Learning and explainable AI algorithms Experience in software design, documentation and management. High level Python and Java programming experience. Experience in Data Engineering (ETL/ELT processes, stream analytics), preferably with cloud and external data sources. Ability to design, develop and manage cloud services e.g., AWS, Azure, GCP. Experience in requirement gathering and team working in business context. Experience in project management and project documentation 	
Desirable	ED1 ED2	<ul style="list-style-type: none"> Hands-on experience in developing dApp with Ethereum or Hyperledger 	

		<ul style="list-style-type: none"> • Knowledge of data visualisation techniques. • Expertise in processing client information data through data science processes. • Good understanding of database management. • Experience in version control systems. • Expertise in of big data framework. • Working knowledge of data streaming framework. • In depth understanding of software project management techniques and best practices. 	
--	--	---	--

Skills

			Evidence A = Application I = Interview
Essential	SE1 SE2	<ul style="list-style-type: none"> • Expertise in Data Architecture & Pipeline Development • Sound working knowledge of Database Management. • Understanding of extracting data from external sources (public and proprietary data repositories). • Ability to analyse, design, develop, and validate integrated data science pipelines in varied and diverse business context • Expertise in services and data integration approaches and framework • Understanding of Agile software development practices. 	
Desirable	SD1 SD2	<ul style="list-style-type: none"> • Ability to codify business logic with Web3 technologies and smart contracts. 	

Knowledge

			Evidence A = Application I = Interview
Essential	KE1 KE2	<ul style="list-style-type: none"> • Good understanding of Data Governance & Compliance. • Knowledge of developing cloud-based data driven services MLOps • Sound working knowledge of numerical and analytical techniques 	
Desirable	KD1 KD2	<ul style="list-style-type: none"> • Knowledge of full stack development and familiarity with Application Programming Interface (APIs), Data Base Management (SQL, noSQL databases) and data Interoperability frameworks. • Understanding of client engagement, retention, experience strategies and how they can be informed through internal and external data. 	

--	--	--	--

Behaviours

			Evidence
			A = Application I = Interview
Essential	BE1 BE2	<ul style="list-style-type: none"> • Strong organisational skills, methodical problem-solving, and attention to detail. • Good communication and interpersonal skills including excellent writing skills with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences. • Ability to work independently and as part of high-performance team, collaborating with colleagues and sharing experience. • Well-developed project management and research organisational skills. • Good analytical skills, self-motivated, with the ability to work with individuals at all levels in the organisation. • Ability to use own initiative and contribute to innovative solutions. • Flexibility to adapt to evolving and dynamic environment. • Enthusiasm to learn and explore new technical opportunities. • Ability to exercise a high degree of attention to detail and accuracy. • Genuine interest in applied ML/AI in business context. 	

Created/Updated (mm/yy):	
---------------------------------	--