Dr. Jessica Neale (Phd) – Curriculum Vitae

AI Product Leader | Enterprise AI/ML | Inclusive Leadership

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Personal Profile

Strategic AI Product Leader with 7+ years' experience delivering enterprise-scale AI and ML platforms across high-regulation industries. Proven ability to translate cutting-edge AI (LLMs, Computer Vision, NLP, predictive modelling) into production-ready SaaS and cloud platforms that deliver measurable business value. Skilled in building proprietary AI infrastructure, defining roadmaps and driving digital transformation. Passionate about inclusive leadership, mentoring and scaling teams to deliver impact at pace.

Key Achievements Snapshot
- £6m working capital savings at Rolls-Royce via AI-driven inventory optimisation.
- 20% uplift in marketing ROI through bp's first predictive AI platform.
- Multi-billion-pound funding secured via Rolls-Royce Digital Demonstrator AI product.
- 95% error reduction & 20% faster reporting through AI-powered compliance automation.
- Founded MyHandyAI, scaling to 200+ users in 4 weeks with zero paid marketing.

Key Skills:
Product Management: Product Strategy & Roadmapping (0→1→Scale) | Develop MVP | Write PRDs & User Stories | Voice of Customer | Define KPIs | Agile Product Development Process | Go-to-Market (GTM) Strategy | Cross-functional Team Leadership
AI/ML Expertise: LLMs, Transformers, Retrieval-Augmented Generation (RAG) | Computer Vision | NLP | Predictive Modelling | Real-time Inference | SaaS & PaaS Platforms | Cloud, API, SDK Integration
Leadership & Influence: Agile (Scrum/Kanban, scaled teams 5–40+) | Stakeholder Influence (C-Suite & Board-level) | Inclusive Leadership | Mentorship & Talent Development

Professional Experience:

Founder MyHandyAI: 2024 - Present
AI-powered DIY assistant (LLM-driven guidance, multimodal search, personalised embeddings).

Achievements
- Built and launched MVP from concept → production-ready platform.
- Designed RAG pipeline, improving query precision by **30%** in pilot testing.
- Scaled community waitlist to **200+ users in 4 weeks** with zero paid marketing (strong GTM execution).

Responsibilities
- Defined product vision, roadmap, and MVP feature set.
- Conducted **20+ Voice of Customer interviews** and **200+ user surveys** to prioritise requirements.
- Translated insights into user stories and PRDs for engineering teams.

bp | Lead Product Manager 2022 - Present

AI-Optimised Marketing Platform: 2025 - ongoing

Achievements
- Launched bp's first AI-powered predictive marketing platform, driving a **20% uplift in ROI**.
- Delivered production-ready ML pipelines with a **cross-functional team of 15+** (PMs, DS, Eng, Analysts).

Responsibilities
- Defined and executed AI product roadmap aligned to commercial goals.
- Partnered with engineering to design APIs and scalable SaaS architecture.
- Collaborated with Data Scientists to build an ML framework identifying users at risk of churn, enabling personalised marketing campaigns and optimising customer retention.
- Set KPIs and leveraged real-time data to optimise campaigns.

Sustainability Reporting Automation: 2023 - 2024

Achievements
- Built AI-driven automation reducing reporting errors by **95%** and cycle time by **20%**.
- Reduced technical debt by **53%**, increasing platform maintainability.

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Responsibilities
- Managed roadmap for regulatory compliance products.
- Translated regulatory requirements into user stories and PRDs.
- Worked with compliance, data, and engineering teams in an Agile product development process.

Innovation Factory: 2022 – 2023

Achievements
- Designed and launched AI-powered bidding platform, achieving **$1.4m cost avoidance in year one**.
- Pivoted product strategy to align with evolving energy priorities.

Responsibilities
- Conducted customer interviews and Voice of Customer analysis to prioritise MVP features.
- Owned GTM strategy, feature roadmap, and API-driven architecture.

Rolls-Royce | AI Product Manager: 2018 – 2022

Future Programmes Digital Demonstrator: 2021 – 2022

- Delivered interactive AI optimisation product (500 variables solved <3 mins), securing **multi-billion-pound Tempest funding**.
- Owned roadmap, MVP design and stakeholder alignment across C-Suite.

Future Programmes Digital Transformation: 2020 – 2021

- Built MVP data tool reducing engineering workflows from hours to minutes (30x faster).
- Introduced Agile Minto a waterfall environment, accelerating delivery and collaboration.

Services IT Business Partner: 2020

- Authored the Data Insights White Paper, shaping **£multi-million digital strategy**.

Data Scientist, R² Data Labs: June 2018 – December 2019

- Designed CNNs for component wear detection, freeing **£600k inventory in 4 weeks;** scaled to **£6m savings**.
- Built NLP + Computer Vision tool preventing scrap and driving reuse, saving **£200k in 4 weeks.**

Technical skills

- **Languages / Frameworks:** Python, R, SQL, TensorFlow, Keras, PyTorch, Scikit-learn
- **AI/ML:** Deep Learning (CNNs, RNNs, Transformers, LLMs), NLP, Computer Vision, Forecasting, RAG, Real-time Inference, Time-series, Model Deployment
- **Tools:** Git, Tableau, Power BI, ChatGPT, Claude, Google Gemini
- **Platforms:** SaaS, PaaS, APIs, SDKs, Cloud-native AI/ML infrastructure

Education

PhD in Human Genetics and Molecular Medicine *University of Edinburgh | 2011 – 2015*
- Applied advanced statistical modelling, data visualisation and computational tools to analyse terabytes of genomic data, laying foundations for later AI/ML applications.

BSc (Hons), Physics. *Kings College London | 2008 – 2011*