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SEAN PREUSSE

Data and AI Leader | Architecture | Engineering

With 17+ years in Data and AI, Sean has led transformation across Finance, Education, Energy, Professional Services, News, and Government. He specialises in building AI-driven solutions that enhance decision-making and efficiency. Sean is dedicated to redefining how businesses operate and deliver greater value by working smarter.

Key Achievements

- **Data & AI Leadership:** Led large teams across data engineering, ML/AI, governance, and BI.
- **Modern Data and AI Platforms:** Designed and implemented AI-driven solutions, built modern data platforms using AWS, Azure, Snowflake and Databricks.
- **AI & DataOps Innovation:** Deployed GenAI and agile DataOps frameworks, improving efficiency and customer experience.
- **Governance & Compliance:** Led governance initiatives with Collibra and Purview, ensuring data integrity and regulatory compliance.

Professional Experience

Practice Manager, Data & AI, Argenti Jan 2025 – Present

- Provided platform advice to C-suite clients and architecture delivery to news, finance and property.
- Defined go-to-market strategy for service and product offering.
- Built GenAI platform on Azure/AWS with assistant/agent capabilities.

Senior Principal Consultant, Data & AI, Versent Jan 2022 – Jan 2025

- Led client enterprise Data and AI architecture and strategy initiatives, delivering integrated, value-driven solutions.
- Delivered modern data platforms across AWS, Azure, Databricks to APA, EQL, CFS.
- Led GenAI deployments, with solutions covering bid proposals, call centre Q/A and project management.
- Lead engineering team management, presales, and consulting, ensuring successful project delivery aligned with strategic objectives.

Director, Data & BI, Macquarie University Aug 2019 – Dec 2021

- Developed a multi-year data strategy roadmap to transform the university's analytics capabilities.
- Oversaw the deployment of Snowflake on AWS, unifying dozens of enterprise systems into a cohesive analytics platform.
- Elevated team skills in data engineering, data modeling, and governance while managing a team of 30 professionals.
- Advocated for modern data governance, leading to significant improvements in data quality and compliance.

Head of Data & Analytics, Open Colleges Jan 2019 – Aug 2019

- Architected and executed enterprise-wide analytics initiatives that supported major business transformation efforts.
- Built and optimised DataOps pipelines using Azure Synapse, Azure DevOps, Power BI, and Apache Airflow to streamline data-to-decision workflows.
- Led data literacy programs across the organisation, empowering stakeholders to leverage data for strategic decision-making.

Senior Manager, Westpac Group *Mar 2015 – Jan 2019*

- Led the data science team, and deployed ML models to improve employee wellbeing and reduce employee churn.
- Developed and implemented a comprehensive data and analytics roadmap that enabled predictive modeling and agile reporting for over 7,000 leaders.
- Led the creation of hybrid cloud solutions for scalable data storage and processing.
- Introduced innovative data products and executive dashboards, significantly enhancing strategic insights.

Analytics Lead, Caltex Australia *Jun 2011 – Mar 2015*

- Delivered workforce analytics solutions supporting \$70M change initiatives, achieving a 90% improvement in reporting efficiency.
- Designed and automated data pipelines and dashboards aligned with enterprise strategic objectives.

Earlier Roles – ACMA & PCC *Sep 2008 – Jun 2011*

- Developed organisational dashboards and advanced analytics models that informed senior management decision-making.
- Built people analytics tools to support strategic HR initiatives.

Education

- Master of Data Science (Partial), University of Sydney, 2017
- Master of Business in Management, University of Technology Sydney, 2013
- Bachelor of Business and Commerce, University of Western Sydney, 2008

Technical Proficiencies

- Cloud Platforms: AWS, Azure
- AI: LangChain, LangGraph, Langfuse, Langflow, OpenAI-Agents, AI Foundary, Bedrock, Vertex AI, ML Flow, Neo4j, n8n
- Data Platforms: AWS, Databricks, Azure, Snowflake, Supabase, MySQL, MSSQL, Postgres, Oracle, Teradata
- Data Governance: Collibra, Purview, DAMA & DMBOK, kada.ai, Data Catalog
- ETL/ELT Tools: DBT, Delta Live Tables, Apache Airflow, Data Factory, Glue, cData, Stitch
- Programming: SQL, Python, R, JavaScript
- Visualization: Power BI, Tableau, Apache Superset, Qlik
- Frameworks: Advanced Certified Scrum, DataOps, PromptOps, MLOps, Managed Services
- Web: NextJS, FastAPI, Flask, Django, Shadcn, TailwindCSS, Prisma, HTML/CSS

Speaking Engagements

- Mar 2025: Future-Proofing your Organisation with AI - SwissCham
- Aug 2023: Data Transformation Best Practices – Databricks World Tour
- Mar 2021: Utilising Data as a Strategic Business Asset – Forefront Events
- Sep 2019: Leveraging Data & Analytics for Digital Empowerment – Digital Transformation Summit
- Jun 2019: Capability Modeling & Forecasting – Workforce Planning Summit
- Feb 2019: The Path to Advanced Workforce Analytics – Industry Forum
- Nov 2018: Building a Data-Driven Culture – Australian Data Summit
- Jul 2018: Making Sense of People Analytics – Public Sector Workforce Planning & Analytics
- Mar 2018: Gaining Insights to Deliver Competitive Advantage – Chief Data & Analytics Officer Sydney
- Oct 2017: Start Small – People Analytics & the Future of Talent

Interests

- Founder of [analytics roundtable](#), a large community of data and AI professionals, with regular meetups.
- Founder of <https://www.techstak.org/>, a not for profit, to assist CIOs and data professionals navigate data and AI solutions.
- Founder of <https://www.turify.dev/>, a not for profit, helping people accelerate data and AI, with code repos.