Daksh Agrawal

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SUMMARY

Product-oriented Data Scientist and former CTO with a unique background bridging Venture Capital (Square Peg, US$3.8B AUM) and SaaS scaling. Combines deep technical expertise in the **Modern Data Stack** (Python, ML, Cloud) with an investor's strategic lens to drive product growth and capital efficiency. Proven track record of engineering 0-to-1 solutions, optimizing high-volume logistics platforms (**5k+ daily bookings**), and delivering institutional-grade investment insights.

TECHNICAL & ANALYTICAL SKILLS

- **Languages & Core**: Python (Pandas, Polars, Scikit-learn), SQL, TypeScript, C++, Java, R
- **Machine Learning & AI**: PyTorch, TensorFlow, PySpark, RAG, Bayesian Modelling, Time-Series Forecasting.
- **Data Engineering**: BigQuery, Snowflake, PostgreSQL, Supabase, dbt, Airflow/Dagster, Hex, Power BI.
- **Web & Application Dev:** Next.js, React, Android (Mobile), Django, FastAPI, Hono, Node.js.
- **DevOps & Cloud**: AWS, GCP, Cloudflare, Docker, GitHub Actions, CI/CD, MLOps, Observability.
- **Financial Analysis**: Equity Valuation (DCF, Multiples), Financial Modeling, Fundamental Analysis, Market Sizing (TAM/SAM/SOM), Unit Economics.
- **Product & Growth**: A/B Testing, PostHog, User Journey Mapping, Funnel Optimization, Unit Economics.

WORK EXPERIENCE

Data Science Intern Mar 2025 — Present
Square Peg - Global Tech Fund *Melbourne, VIC*

- Engineered predictive valuation models for listed tech equities using **XGBoost** and **PySpark**, improving investment screening accuracy by 25% and sharpening the fund's sourcing edge.
- Constructed a proprietary "Talent Density" pipeline analyzing **500k+** LinkedIn profiles; generated organizational quality metrics that were directly cited in Investment Committee decks.
- Architected self-serve RAG infrastructure and **Hex** dashboards (Supabase, BigQuery), compressing analyst insight retrieval time from days to **<5 minutes**.
- Refined the fund's AI-first investment thesis by deconstructing technical value chains across the **AI Infrastructure stack** (LLM inference, observability, cloud workloads) and **Global Payments**, identifying structural winners in the Generative AI landscape.

Academic Tutor – Python & Algorithms Feb 2023 — Nov 2025
University of Melbourne *Melbourne, VIC*

- Instructed a cohort of 200+ students in Python programming and algorithmic complexity, engineering gamified learning modules that increased pass rates by **18%**.
- Facilitated interactive workshops on structured problem-solving and debugging, emphasizing industry-standard clean code practices (PEP 8) and maintainability.
- Achieved a top **5%** ranking in teaching evaluations university-wide, securing the highest student attendance and engagement metrics within the department.

Data Analytics Intern Nov 2024 — Feb 2025
TasWater *Launceston, TAS*

- Secured a highly competitive return offer for a full-time Graduate Data Science role by outperforming project deliverables and driving stakeholder engagement.
- Engineered end-to-end business intelligence solutions within the **Microsoft ecosystem** (Power BI, DAX, Power Query), reducing manual reporting overhead by **70%**.
- Bridged the gap between technical data teams and non-technical operations staff, translating complex data requirements into user-friendly tools to ensure high adoption rates.
- Developed rapid, creative data prototypes to bypass legacy system bottlenecks, delivering immediate value while scoping long-term reporting architecture.
- Defined and visualized performance KPIs for a **$1B+** asset portfolio, resulting in their immediate adoption for monthly executive strategy reviews.

Co-Founder & CTO   Jul 2019 — Jun 2022

G7 Smart Logistics   *Udaipur, India*

- Scaled a "WhatsApp-first" logistics SaaS to **5,000+ daily bookings**, successfully digitizing operations for a network of **10,000+ truckers** with low digital literacy by mirroring legacy offline workflows.
- Engineered the end-to-end architecture (Hono, Supabase, Kotlin, React, Cloudflare) and optimized database queries to reduce trip-matching latency by **40%**, directly driving a **60%** increase in repeat bookings.
- Orchestrated product growth experiments (A/B testing) and introduced Duolingo-style gamification features (badges, streaks), reducing onboarding time by **80%** and achieving a **2.5x uplift in DAU**.
- Led a 6-person agile team and secured **seed funding** by demonstrating clear Product-Market Fit through improved fleet utilization rates and unit economic analysis.

EDUCATION

The University of Melbourne   Melbourne, VIC

Bachelor of Science, Major in Data Science   *Jul 2022 — Jun 2025*

- Academic Excellence: Achieved a **WAM of 85.2/100 (H1 / High Distinction)**; selected for the **Dean's Honours List** (recognizing the top 3% of students).
- Awards: Recipient of the **International Undergraduate Scholarship** (Merit-based tuition waiver awarded to high-achieving international students).
- Relevant Coursework: Machine Learning, Data Structures & Algorithms, Statistical Modelling, Database Systems (SQL), Software Engineering, Cybersecurity.

PROJECTS

Rental Market Forecasting & Investment Strategy

- Engineered a robust predictive pipeline by scraping and integrating disparate real estate and socioeconomic datasets, utilizing **XGBoost** and regression models to achieve **90%+ R² accuracy**.
- Developed an interactive, investor-centric dashboard to visualize the trade-off between affordability and livability, directly aiding in strategic property acquisition decisions.
- Tech Stack: Python, Pandas, Scikit-learn, Beautiful Soup, Streamlit. [Github Repository](#)

Generative AI Legal Case Visualizer (Hackathon)

- Developed a full-stack educational platform transforming complex legal case studies into interactive graphic novels, deployed on high-performance **Cloudflare** edge infrastructure.
- Engineered a multi-step AI orchestration pipeline using **Gemini Models**; designed a workflow that first generated character schemas to serve as immutable context for subsequent panel generation, successfully solving character consistency.
- Tech Stack: Next.js, Hono, Gemini API, Supabase, Cloudflare (Workers/Pages).

NYC Taxi Fleet Optimization (Big Data Analysis)

- Built a distributed Machine Learning model using **PySpark** on a large-scale dataset to predict zone-wise taxi demand under surge conditions.
- Formulated a dynamic fleet allocation strategy that projected a **15% increase in revenue per trip** by optimizing driver distribution based on predicted demand hotspots.
- Tech Stack: PySpark, Apache Spark, MLlib, Cloud Computing. [Github Repository](#)

LEADERSHIP & EXTRACURRICULARS

Director of Education, Data Science Students Society   Sep 2023 — Aug 2024

- Orchestrated technical workshops and hackathons for **300+** students; curated expert industry panels to bridge the gap between academic theory and corporate application.

Director of Marketing, Google Developers Student Club   Aug 2023 — Mar 2024

- **Doubled (2x)** event attendance by executing data-driven marketing campaigns and managed brand strategy for a **500+** member technical community.

REFEREES

- Work: [Sam Eden](#), Investor, Square Peg (on request)
- Work: [Sharon Archer](#), Head of Procurement, TasWater (on request)