

Anjani Ganapathy

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WORK EXPERIENCE

SPAR Solutions

Atlanta, GA | Sept 2025 - Present

Technical Product Manager | Knowledge-First AI Service

- **Defined product vision and strategic roadmap for Knowledge-First AI service:** Established diagnostic framework (20+ diagnostic metrics) using tools for unstructured text analytics (LangChain/BERTopic, etc) and designed RAG-based evaluation frameworks. Managed agile development team through this work, prioritizing work with leadership input to deliver AI platform capabilities.
- **Delivered client POC within 1-month timeline:** Rapidly built 10 evaluation metrics from scratch by synthesizing computational linguistics expertise with emerging LLM capabilities. Collaborated cross-functionally to balance technical feasibility with business requirements under tight constraints.
- **Engineered LLM-powered remediation workflows with quality guardrails:** Developed prompt strategies for content optimization and establishing risk-based human review frameworks. Created simulated RAG system to validate remediated content quality and AI consumability.

Capital One

Washington, DC | Aug 2019 - Oct 2023

Data Analysis Manager (Data Product Owner) | Card Data Infrastructure

Snowflake Depersonalized Data Ecosystem (DepEco)

- **Defined product direction with stakeholder input:** Translated business needs to actionable tasks for product and tech teams and regularly communicated product updates to senior leadership (VP+). Refined product end state vision and managed execution for key improvements like real-time updates to DepEco datasets.
- **Coordinated cross-functional delivery:** Facilitated collaboration and aligned priorities across product, tech, and data science teams. Mitigated dependencies and risks in DepEco by escalating and resolving issues like a data transfer gap that resulted in a 2% improvement in DepEco data completeness.
- **Established data validation & customer support:** Led team of 5 to ensure data quality, proactively identify issues, and escalate customer needs. Created and managed DQ checks in AWS Quicksight, enabling escalation and recovery of missing data (5%) in critical datasets.
- **Led product adoption to unlock business value:** Created documentation and led training for >100 analysts which facilitated use of external data in critical valuation and decisioning models estimated to generate >\$250M in revenue.

Principal Data Analyst (Product Focus) | Card Data Infrastructure

Credit Policy Analysis Simulation Tool

- **Led product development & user onboarding:** Wrangled large datasets to create a central tool using Python for more consistent and faster simulation of credit policies on card applicants and experimental A/B testing for credit policy changes; onboarded >75 analysts.

Automated Card Customer Performance Reporting

- **Re-designed and executed suite of reports:** Created a robust automated pipeline to generate reports on the performance of 150+ experimental credit card customer segments, along with alerts for underperforming segments.

Senior Data Analyst | Bank Marketing Experience

Digital-First Email Marketing Experimentation

- **Optimized campaigns with data-driven insights:** Produced Tableau dashboards to evaluate customer engagement with email marketing campaigns and identify drop-off points. Designed experiments to test email changes that improved consumer adoption of digital-first banking strategies (paperless billing increased by ~40%).

EDUCATION

UNIVERSITY COLLEGE LONDON, Faculty of Brain Sciences

London, United Kingdom

Masters in Computational Linguistics

Sept 2025

GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering

Atlanta, Georgia

Bachelor of Science in Industrial and Systems Engineering

May 2019

SKILLS

- **Programming Languages + Packages:** Python, Pandas, PyTorch, TensorFlow, NLTK, SQL, R, HuggingFace, Sklearn, matplotlib, seaborn
- **Platforms & Frameworks:** Github, Snowflake, Tableau, AWS Quicksight & S3, Jira, APIs (Reddit, HuggingFace, OpenAI)

- **Languages:** English – native, Tamil – native, Hindi – native, Spanish – advanced

SELECTED RESEARCH & PROJECTS

Vector-Quantized VAEs for Unsupervised Part-of-Speech Induction

Dissertation Research in Computational Linguistics

- **Developed first neural unsupervised POS tagging baseline for Hindi:** Achieved 47.41% Many-to-One accuracy using custom VQ-VAEs with Gumbel-Softmax discretization. Designed novel architecture combining MuRIL BERT embeddings with character-level learned representations to capture morphological features in Hindi's free word order.
- **Conducted ablation studies to test efficacy of standard assumptions and model components:** Disproved standard Bi-LSTM assumption for languages with flexible syntax; proved feed-forward decoders more effective for Hindi (25% accuracy improvement).
- Technologies/methods: PyTorch, HuggingFace Transformers, Universal Dependencies treebanks, custom VQ-VAE implementation

Neural Machine Translation for Code-Mixed Hinglish

NLP Seminar Project

- **Built end-to-end seq2seq NMT system using LSTM architecture:** Achieved low training losses (4.28 to 0.82) through thoughtful architecture design, including proper sequence token handling and dropout regularization.
- **Unique challenges of code-mixed NMT led to unfavorable results:** The combination of dataset size, romanization variations, informal social media text, and lack of standardized orthography resulted in a difficult to train model.
- Technologies/methods: PyTorch, NLTK, custom attention mechanisms, cross-entropy loss optimization