Svadrut Kukunooru

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TECHNICAL SKILLS

AI/ML: OpenAI APIs, LLM Evaluation, BERTopic, K-Means Clustering, Model Performance Tuning
Languages: Python, JavaScript, SQL, R, HTML/CSS
Frameworks & Libraries: Next.js, React, Spring Boot, Zustand, D3.js
Cloud & Data: AWS (Developer Associate Certified), Google Cloud Platform, BigQuery, Supabase, Terraform
Tools: Git, REST APIs, Agile Development, Analytics Platforms

PROFESSIONAL EXPERIENCE

Wayfair — Boston, MA
Software Engineer, Knowledge Management — *January 2024 – Present*

- Engineered centralized LLM analytics pipeline processing 10K+ user interactions, enabling scalable offline evaluation using BigQuery, Terraform, and internal analytics tools.
- Built comprehensive evaluation framework implementing 5+ metrics (ground truth, relevance, faithfulness, precision/recall) across 100+ test queries, creating executive dashboards driving $4-5M vendor selection decisions.
- Developed ML clustering pipeline using BERTopic, K-Means, and Agglomerative Clustering to process thousands of employee queries, generating representative test datasets for model evaluation across business domains.
- Integrated Google Agentspace with 6+ enterprise data sources (Confluence, Slack, Google Drive) using Discovery Engine API, building custom AI agents to automate Talent-related inquiries and reduce ServiceNow ticket volume.
- Collaborated with Google engineers and cross-functional teams to pilot AI-powered knowledge retrieval system for 50+ Talent org employees, with planned expansion company-wide.

Wayfair — Boston, MA
Software Engineering Intern, Legal Tech — *June 2024 – August 2024*

- Developed Waybor, AI-powered assembly assistant parsing CAD models to generate multimodal step-by-step product instructions; **won Intern Innovation Challenge (Top 1 of 40+ teams)**.
- Implemented RESTful APIs using Spring Boot, enabling real-time compliance rule integration across 10K+ supplier products with automated backend validation workflows.

PROJECTS

Campusfy | *LLMs, Python, Supabase, Next.js, SQL* — Feb 2024 – Present

- Built LLM-powered platform interpreting natural language queries (e.g., "easy CS electives") to recommend tailored courses from database of 20K+ scraped academic listings.
- Achieved 5K+ course views in first 2 months with semantic search functionality, difficulty filters, and peer review integration across 2 major universities.
- Developed scalable backend with Supabase and secure authentication via NextAuth.js, supporting 1K+ active users with responsive frontend UI and caching optimizations.
- Fine-tuned course discovery through prompt engineering and integrated semantic similarity algorithms for enhanced natural language search capabilities.

EDUCATION

University of Wisconsin – Madison — Madison, WI
Bachelor of Science in Computer Science, Minor in Data Science — *2021 – 2024*

- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Algorithms, Operating Systems, Software Engineering, Databases, Data Modeling, Linear Algebra, Discrete Math

CERTIFICATIONS

Amazon Web Services — July 2024
AWS Developer Associate – DVA-C02

- Demonstrated proficiency in core AWS services, application lifecycle management, and optimizing AWS-based applications for performance and security.