Rahul Kashyap

Data Scientist

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Innovative Data Scientist with 5+ years of experience in real-time audio transcription, LLM/RAG, and production-grade ML systems. Designed and deployed low-latency transcription and alerting pipelines, ICD code normalization services, and observable microservice architectures on Azure + OpenAI. Skilled in Python, PySpark, SQL, Power BI, and Excel, with a strong record of improving accuracy, reliability, and cost-efficiency through data-driven collaboration.

Technical Certifications

IBM: Building AI Solutions Using Advanced Algorithms and Open-Source Frameworks	**2024**
IBM: Generative AI: Introduction and Applications, Coursera	**2024**
IBM: Data Science Specialization, Coursera	**2023**
Microsoft Power BI Desktop for Business Analytics, Udemy	**2021**
Certified in Data Science using Python, Analytix Labs	**2018**

Technical Proficiencies

Languages | Python, R, Java, C/C++, SQL, PySpark

Tools | VS Code, Cursor, Jupyter Notebook, Databricks, Tableau, OpenAI, Azure Storage/Key Vault/Monitor, FastAPI, Flask, Advanced Excel, Power BI, MS-Office

Process | Agile, Scrum, JIRA, Git

Professional Experience

ResolveHD, Nova Scotia, CA   **Feb 2025 – Oct 2025**
Data Scientist

- Built a real-time audio transcription platform (mic, audio files, live broadcast stream URLs) with OpenAI API models, achieving <8s transcription latency, and 90%+ Accuracy through regex + prompt-engineering post-processing.
- Automated operations checklists (SOP) & emergency alerts, triggered from recognized transcription text in real-time; generated structured actions (timestamps, assignee, SOP step) and pushed to backend services, cutting manual documentation and audit processes.
- Developed modular microservices (transcribe → classify → alert → export/notify) with observable pattern architecture, ensuring reliability, scalability, and easy monitoring in production.
- Shipped ICD Condition Code Resolver microservices using a hybrid matcher (regex direct match, fuzzy distance, embeddings, RAG, BioBERT) to normalize free-text notes to ICD codes with 75% accuracy.
- Delivered multiple end-to-end audio transcription demo products with frontend and backend integration for go-to-market showcase.

Sobey School of Business, SMU, Nova Scotia, CA   **Feb 2024 – Jan 2025**
Data Scientist

- Developed machine learning models achieving 70% accuracy rate in distinguishing hateful from non-hateful image and text posts by implementing a sophisticated multi-modal machine learning & Image processing pipeline.
- Developed and tested 20 large language models (LLMs) to enhance content classification and hate speech detection capabilities.
- Improved model performance by addressing class imbalance with weighted random samplers and advanced data augmentation.
- Created an intensity scale for hate speech using the CLIP model, aiding in the assessment and moderation of harmful content.
- Devised and implemented sentiment analysis tools and emotion recognition models to classify content by hate intensity.
- Led efforts to proactively moderate content through data interpretation and sentiment metrics (NLP).

The Citco Group Limited, Nova Scotia, CA   **Sep 2023 – Mar 2024**
Data Analyst (Internship)

- Reduced database size by 10%, enhancing system efficiency and performance by optimizing data storage and removing redundancy.
- Predicted fund closure dates using machine learning models deployed on Databricks cloud platforms, improving forecast accuracy.
- Developed a comprehensive Power BI dashboard delivering critical business insights on data usability and infrastructure costs.
- Cataloged 377 tables across 33 schemas to streamline data management and analysis processes.
- Integrated SQL with Python/Pyspark to enhance data retrieval efficiency, streamlining the analysis process.

Sobey School of Business, SMU, Nova Scotia, CA   **Jan 2023 – May 2023**
Data Analyst (Internship)

- Extracted and wrangled Nova Scotia Open Data, Analyzed air quality data and its impact on asthma prevalence, identifying key correlations using statistical methods.
- Leveraged difference-in-differences analysis to validate findings, informing health strategies and policies.
- Utilized machine learning and descriptive analytics to provide actionable insights into health-related data.
- Applied Descriptive, and Prescriptive analytics to interpret complex datasets and provide insights.

Flipkart (Walmart Group), Ecommerce Giant, India   **Sep 2018 – July 2022**
Operations Business Analyst (Manager) – Last Mile

- Managed end-to-end project management of Same-Day Delivery and Delivery & Installation initiatives within 48 hours, significantly enhancing customer satisfaction and operational efficiency.
- Led comprehensive data science analyses on supply chain datasets, ensuring data integrity and optimizing processes to guide executive decision-making.
- Drove an 8% increase in quarterly revenue through strategic project management of delivery services.
- Improved reverse logistics efficiency by 45%, streamlining operations and reducing costs.
- Garnered 4 awards for supply chain optimization solutions, contributing to enhanced data-driven decision-making.
- Achieved a 25% cost reduction with vendors through effective implementation of a Vendor Scorecard system.
- Demonstrated proficiency in business intelligence tools by crafting sophisticated reports and dashboards.
- Developed and implemented a Vendor Scorecard system based on KPIs, resulting in cost savings and improvements.

Areas of Expertise

• Business Intelligence	• Problem Solving	• Natural Language Processing
• Statistical Analysis	• Data & Data Analysis & Data Wrangling & Preparation	• Deep Learning
• Project Management	• Machine Learning	• Data Visualization & Storytelling
• Supply Chain Optimization		• Audio Processing and Transcription

Education

Master of Business Analytics	Sobey School of Business, Saint Mary's University (SMU), Halifax, NS, Canada	**2023**
PGP in Data Science using Python	Analytix Labs, Delhi, India	**2018**
Bachelor of Technology in Computer Science	Amity University, UP, India	**2017**

Awards & Activities

CEO's Award for Customer Excellence, Flipkart	**2022**
Business Optimization Award, [Received R&R Award], Flipkart	**2021**
Supply Chain Optimization, [Received R&R Award], Flipkart	**2021**
Business Innovation Award [Received R&R Award], Flipkart	**2020**