Prathamesh Walawalkar

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EXPERIENCE

Market Research Analyst

Freelance   **May 2024 – January 2025, Remote (Sofia, Bulgaria)**

· Played a key role in market research by generating high-quality business leads, contributing to targeted outreach strategies.
· Conducted extensive research across 400+ cities/towns in England and Scotland, identifying businesses based on specific categories and locations.
· Compiled and organized data for approximately 100,000 business leads, demonstrating efficiency in data collection, data scraping and data management.

Data Scientist

Intelligent Environmental Solutions Foundry (IESF)   **May 2025 – August 2025, Guelph, ON**

· Led development of an interactive habitat inventory dashboard integrating Supabase, Microsoft LIDA AI assistant, and geospatial visualizations for both researchers and children.
· Performed the task of database design, ETL process and analytics and implemented advanced data visualization workflows enabling users to filter, preview, and download environmental datasets.
· Collaborated with multidisciplinary teams to ensure dashboard met scientific, educational, and community engagement goals.

PROJECT

IESF Dashboard

Intelligent Environmental Foundry · glittery-pavlova-c753fc.netlify.app/

· Digitized and standardized over 120,000 environmental records from fragmented sources (field sheets, spreadsheets, lake monitoring data) using OCR pipelines, manual QA, revolutionized data collection by building an AWS-backed, digitized data-collection pipeline replacing paper workflows—API Gateway + Lambda ingestion; S3 buckets for storing audio, images, photos with real-time data updation at the tip of your fingers.
· Designed and implemented a relational PostgreSQL schema on Supabase with PostGIS support, automatic REST API endpoints for interactive data access.

Video Gen AI agent backed by n8n

renmotc.github.io/video-gen-ai

· Orchestrated video-gen chatbot in n8n with webhooks, conditional branches, retries, and error handling.
· Built a custom n8n node for Replicate to integrate Google VEO3 ai agent.
· Applied AI-assisted development + prompt engineering for rapid prototyping and cloud-automation design stubs.

EDUCATION

Master of Data Science

University of Guelph · Guelph, Ontario

Bachelor of Engineering in Computer Engineering

Rajiv Gandhi Institute of Technology · Mumbai, India · 2024 · 8.5

PUBLICATIONS

Road accident analysis and hotspot prediction

Copyright Office Government of India · Diary Number: 10186/2024–CO/L, April 03. 2024 (pending) · n/a – n/a

Olympics Sports Data Analysis

International Journal of Engineering and Technology (IRJET) · Volume: 10 Issue: 11 | Nov 2023 · n/a – n/a

SKILLS

· **Cloud**: AWS, Azure, Supabase, Render, Github Pages
· **Workflow Automation (n8n):** Advanced workflows, custom nodes, error handling/retries, webhook integrations
· **Databases:** PostgreSQL, MySQL, NoSQL design patterns, data modeling, performance optimization, PostGIS.
· **APIs & Real-Time:** REST design, pagination/rate-limits, WebSocket/SSE basics
· **Infrastructure as Code / DevOps:** CloudFormation, AWS CDK, automated deployment pipelines, CI/CD, Git
· **Programming:** Python, R, SQL, JavaScript, HTML/CSS
· **Data & AI Integration:** Document processing, ETL/ELT, data scraping, AI/ML service integration (Replicate)
· **Soft Skills:** Communication, problem-solving, teamwork, analytical thinking