Harshil Patel | Toronto, Canada | +1 7059776064 | imharshil03@gmail.com | im harshilpatel99 | im harshilpatel99

EXPERIENCE

Senior Data Engineer and R&D Lead | Miix Analytics | ON, Canada

July 2023 - Present

- Led a team of analysts and engineers in implementing **Marketing Mix Models (MMMs)** for clients in consumer goods, home improvement, and wine industries, optimizing \$50–\$80 million annual marketing budgets.
- Directed and Engineered automation frameworks to streamline analytics workflows, enhancing scalability, reliability, and processing efficiency. This effort helped **reducing operational costs by 25**% and accelerating insight delivery across teams.
- Collaborated on Price and Promo models, achieving a 15% improvement in revenue efficiency for Canadian CPG and retail clients.
- Partnered with C-suite stakeholders to translate advanced data models into actionable business strategies.
- Tech stack: Data Modeling, Python, SQL, BigQuery, Redis, AWS (S3, Lambda, Amplify), Google Looker Studio, GCS, Cloud Run

Software Engineer | Spire Global Inc. | ON, Canada

Nov 2022 - Feb 2023

- Built high-performance GraphQL APIs for maritime data extraction and satellite imagery processing, enabling vessel detection with RF signal-based tracking.
- Integrated GIS and OGC Web Map data to enhance algorithm accuracy and scalability.
- Tech stack: Python, GoLang, GraphQL, GIS, Image Processing

Backend Software Developer | **Haqdarshak** | *MH, India*

Jan 2021 - Oct 2021

- Designed and deployed RESTful microservices serving 10,000+ daily active users.
- Engineered a scheduling backend that streamlined India's COVID vaccination system, optimizing logistics for nationwide rollout.
- Improved data workflows, boosting retrieval speeds by 40% while ensuring reliability and data integrity.
- Tech stack: Python, Django, REST APIs, Data Engineering, Docker, Kubernetes, AWS

Software Engineer | RecruitNet | Hong Kong SAR

Jun 2020 - Dec 2020

- Built scalable web scrapers with Python, Selenium, and BeautifulSoup to extract ATS data, increasing accessibility by 40%.
- Automated cron-job pipelines to integrate multiple data sources seamlessly into a recruitment platform.
- Tech stack: Python, Java, Perl, Selenium, NLP, Data Analysis

Software Developer Intern | Atliq Technologies | GJ, India

Mar 2019 - July 2019

- Contributed to a cross-platform video streaming and retail app using React and React Native.
- Designed backend integrations with SQL, Redis, and Firebase for scalable performance.
- Tech stack: ReactJS, NodeJS, Firebase, SQL, Redis, PHP

PROGRAMMING SKILLS

Data Engineering: Data Modeling, SQL, PostgreSQL, Redis, AWS (S3, EC2, Lambda), GCS, Airflow, Spark, Kafka

Programming: Python, GoLang, Java, C, C++, JavaScript, TypeScript, PHP

Frameworks/Tools: Django, FastAPI, REST, GraphQL, Docker, Cloud Run, Git, TensorFlow, Looker Studio, Tableau, Firebase

PROJECTS

Retail Optimization for Behavior Analysis & In-Store Navigation

Python, Django, PostgreSQL, React, NLP, TensorFlow

- Led design of an AI-driven system for demand forecasting, inventory optimization, and personalized recommendations.
- Integrated indoor navigation using a modified A* algorithm to optimize customer shopping paths.

Healthcare Management System (Freelance)

Flask, React, Python, SQLite, AWS

- Delivered a full-stack healthcare management solution with Flask microservices, JWT authentication, and React-Redux frontend.
- Built secure APIs for patient scheduling, health tracking, and hospital reporting within 20 days.

Technical Writing (medium.com/@harshil.99)

Python, Tensorflow, NLP, CNN, Auto-Encoders

- Neural Machine Translation (NMT) with Attention Mechanism 17.1K views, 4.8K reads
- Image Super-Resolution using CNNs and Auto-Encoders 15.6K views, 7.5K reads

EDUCATION

Trent University - MSc. in Big Data Analytics (GPA: 4.0/4.0)

May 2021 - Sept 2022

• Researched deep learning architectures (C-BiLSTM, BiLSTM) for predictive analytics. (bit.ly/cbiLSTM)

ON, Canada

Gujarat Technological University - BE. in Computer Engineering (GPA: 3.9/4.0)

Aug 2016 - Sept 2020

• Design Lead at Computer Society of India SB; Mentor, Coding & Hackathon Club.

GJ, India

AWARDS AND ACHIEVEMENTS

- Awarded Employee of the Year (2023) at Miix Analytics for leading high-impact data engineering and R&D projects.
- Named **2024 Global 30-Under-30** by Significant Insights for excellence in research, data, and insights leadership.