Hossein Gol



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Australian Permanent Residence

Data Scientist | Analytics Engineer | MLOps Enthusiast. I build intelligent, scalable data systems that turn insights into action. Specializing in predictive modeling, NLP, LLMs and cloud-native architectures (AWS, Azure, GCP), I deliver end-to-end solutions that combine technical depth with business acumen. Passionate about solving complex data challenges and driving measurable impact. My IT and Data Science education, combined with proficiency in Python, SQL, and visualization tools, equips me to address complex data challenges and drive impactful results.

Work Experience



Data Science Engineer

Larkin provides data science solutions and services to external businesses across various sectors in the U.S.

Jun 2023 to Present (Remote)

- Designed, trained, and validated predictive models (classification, regression, clustering) in Python using Scikit-learn, applying cross-validation and documenting assumptions for reproducibility.
- Designed and developed end-to-end ETL pipelines and data models using SQL and Python, enabling structured data ingestion, transformation, and reporting while optimizing AWS cloud storage and compute resources for performance and cost efficiency.
- Developed and deployed NLP pipelines (sentiment analysis, topic modeling, clustering) leveraging LLMs and ML frameworks.
- Orchestrated end-to-end data and ML workflows using Apache Airflow, defining complex DAGs with task dependencies, schedules, and error handling to ensure reliable execution of ETL pipelines.
- Implemented CI/CD and continuous training workflows for ML models, enabling automated testing, scheduled retraining, and production monitoring.
- Conducted EDA to support data-driven recommendations on audience targeting, channel mix optimization, and budget allocation.
- Built and integrated RESTful and cloud-based APIs (AWS, FastAPI) and connected to external AI
 endpoints (OpenAI, Qwen) for model serving, data enrichment, and intelligent automation in
 production pipelines.
- Analyzed multi-channel campaign performance and delivered insights on attribution and ROI. Built
- interactive dashboards in Power BI, Tableau, and Amazon QuickSight for executive stakeholders, visualizing campaign ROI, engagement trends, and customer segments.
- **Key Tools & Techniques:** Python, SQL, R, Scikit-learn, MLflow, LLMs, ETL, EDA, NLP, AWS, Docker, CI/CD, Predictive Modeling, RESTful API, Power BI, Tableau.

No Project Portfolio:

AI-Powered Psychologist (NLPMental Health Assistant): <u>Live Demo</u>

DataOps Monitoring Platform: Live Demo

Brands Sentiment Intelligence Dashboard: Live Demo

Full Portfolio: hprojects.dev





Data Analytics Engineer

RoshanRooz, the largest Iran Stone Information Center, and the main holder of Iran's Stone Book. Provides digital marketing, data analysis for sales, marketing, finance, and production tailored for this sector.

April 2019 to December 2021 (2 years, 9 months)

- Designed and developed data models, pipelines, and reports for sales, marketing, and production teams using SQL, Python, and Power BI.
- Automated the data pipeline (ingestion, preprocessing, transformation, visualization), reducing reporting time by 50%.
- Conducted EDA and created dashboards to monitor sales/marketing KPIs, improving campaign efficiency.
- Developed and integrated RESTful APIs to consolidate multi-source marketing, CRM, and production data into unified KPI tracking systems, enabling real-time performance monitoring.
- Developed ML techniques (predictive modeling, clustering) to enhance marketing analytics and production forecasting, supporting data-driven decisions.
- Delivered measurable business impact: 12.5% reduction in material waste and 90% increase in average annual production, 120% in lead generation, and 70% in sales through operational analytics and adjusting sales strategy.

Key Tools & Techniques: SQL, Python, Power BI, Tableau, AWS, Google Analytics, Looker, BigQuery, API Integration, Digital Marketing Insights, SEO/SEM.



Data Analyst

Mobinnet Telecommunication is one of Iran's largest Wireless Broadband Network operators. April 2017 to April 2019 (2 years)

- Developed automated dashboards and reports for marketing and sales units using Power BI, Google Data Studio, and DAX.
- Created actionable KPIs (churn, CLV, CPL, conversion rate) to support lead generation and retention efforts.
- Conducted performance analysis on digital campaigns, helping improve targeting and reduce cost per lead.
- Used SQL and Python for customer data analysis, leading to better product bundling and pricing decisions.

Key Tools & Techniques: Power BI, DAX, SQL, Python, Digital Channel Analytics, Web Traffic Analysis, Churn Modeling

Relevant Skills

- Programming & Languages: Python, R, SQL, HTML, CSS
- Tools & Platforms: PostgreSQL, Power BI, Tableau, Looker, Google BigQuery, Apache Airflow, AWS, Azure, GCP, MLflow, Docker, FastAPI
- Techniques & Machine Learning: Supervised & Unsupervised Learning, Regression & Predictive Modeling, NLP, LLM Integration, Customer Segmentation, Attribution & Forecast Modeling, Model Deployment & Monitoring
- Data Engineering & MLOps: Data Warehousing, ETL Automation, Data Pipeline Orchestration, API Integration, CI/CD for ML, Cloud Infrastructure Optimization

Education

- Master of Data Science
 University of Malaya (UM), Malaysia Graduated 2023
- Bachelor of Information Technology
 University of Applied Science and Technology (UAST), Iran Graduated 2017