Hamza Ghanmi

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Data Engineer

Proficient Data Engineer with 3+ years of experience. Skilled in Python, Data Analytics and Machine Learning. Proven ability to solve complex data challenges and transform them into actionable insights. Developed advanced data analysis and predictive modeling skills through Kaggle, achieving 'Notebook Master' status, and securing 7th place out of 1,433 in the TPS Feb 2021 competition.

WORK EXPERIENCE

Kaspr (Acquired by Cognism)

Data Analytics Engineer – Cognism   **Jan 2025 - Present**

- Used Terraform to manage and deploy AWS resources, reducing deployment time and ensuring reproducible infrastructure.
- Optimized data workflows with DBT and Redshift, improving accuracy and reliability of data transformations.
- Collaborated with cross-functional teams to enhance data models, improving data accessibility for reporting and analysis

Data Engineer – Kaspr   **Jul 2023 - Present**

- Led a team of 3 data engineers to design and implement data-driven solutions, fostering collaboration and driving efficient project delivery.
- Developed scripts to extract and process data from MongoDB (over 170 million documents), generating insightful statistics and visualizations integrated with Tableau for data-driven decision-making.
- Documented Kaspr's web app data flow, including data sources, data processing, and architecture.
- Designed an optimized data flow, ensuring a clear understanding of each stage and achieving a 50% processing time improvement.
- Developed a Flask application that ingests and processes large-scale log data (50 million rows) from Elasticsearch, performing comprehensive ETL operations and serving the transformed data for analytics and reporting purposes.
- Maintained and optimized ETL scripts running as cron jobs, improving data pipeline efficiency and reliability.
- Developed an automated system using the ChatGPT API to generate personalized emails, streamlining communication processes and increasing efficiency.

ABSHORE

Data Scientist   **Aug 2022 - Jul 2023**

- Designed an automated tool to extract structured data from various resume formats and integrated it into a Django web application, enhancing data processing efficiency.
- Built a web scraper to extract data from LinkedIn profiles, enhancing data collection and analysis capabilities.
- Applied a heuristic approach to effectively parse and extract meaningful information from unstructured documents.
- Implemented, and tested APIs using Django Rest Framework to support seamless backend communication.

LOGAWIN

Software Engineer   **Aug 2021 - Jul 2022**

- Developed RESTful APIs, designed database models, and created views to support the development of a web application for area services in France.

- Implemented interactive maps with customized markers using Leaflet to enhance user experience and data visualization.

- Developed web crawlers to collect and scrape data from various websites, including social media platforms like Facebook and Twitter.

- Integrated data collection tools into a Flask web application to streamline the data acquisition process.

Telnet Holding

Graduation Internship   **Feb 2020 - Jun 2020**

- Developed a biometric behavioral authentication system leveraging smartphone usage patterns to enhance security and user verification.

EDUCATION

Computer Science Engineer
National School Of Computer Sciences   Sep 2017 - Sep 2020
Pre-Engineering degree (Math/Physics)
Preparatory Institute For Engineering Studies of Bizerte   Sep 2015 - Sep 2017

CERTIFICATIONS

Master Data Engineering using GCP Data Analytics   Mar 2024
Udemy
MLOps Specialisation   Dec 2022
Coursera
Quantum Machine Learning   Aug 2021
IBM
Deep learning Specialisation   Aug 2019
Coursera

SKILLS

- **Languages:** Arabic, English, French, Spanish

- **Tools:** Confluence, Figma, Jira

- **Soft Skills:** Collaboration, Communication, Problem-Solving

- **Programming & Frameworks:** Django, Flask, JavaScript, PySpark, Python, Scikit-learn, Selenium, TensorFlow

- **Data Analysis & Visualization:** Matplotlib, Mixpanel, Numpy, Pandas, Pyarrow, Seaborn, Tableau

- **Others:** Airflow, AWS, BigQuery, DBT, Git, MongoDB, PostgreSQL, Redshift, SQL, Terraform, Web-Scraping