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Experience

Appsilon Remote

Business Intelligence Developer (R/Shiny)

March 2023 - Present

- Developed Retrieval-Augmented Generation (RAG) tools for natural language interaction with documents via LLMs on AWS Bedrock, integrating Pinecone, FastAPI, and R/Shiny to access internal knowledge and technical documentation.
- Built a full-stack web application for Boston Medical Center to explore and share health equity data across common data models; featured in *Journal of Clinical and Translational Science* (Adams et al., 2024) and presented at Shinyconf2024.
- Designed a reusable Shiny app template for a global pharmaceutical client that generates Tables, Listings, and Figures directly from CDISC ADaM datasets, cutting development time from several months to a few weeks. Introduced CI/CD with GitHub Actions and increased test coverage from 0% to 90%.
- Authored a widely-read <u>Shiny security guide</u>, covering authentication, authorization, input sanitization, and deployment best practices. The post has become a reference for the R community and appears at the top of Google search results for "Shiny security."

24saatteis

Data Scientist

Istanbul, Turkiye (Hybrid)

Jan 2019 – Feb 2023

- Developed a Bimodal Neural Network using Tensorflow and OpenCV that predicts OCEAN personality scores from video interviews with 90% accuracy.
- Built and deployed multiple predictive models to AWS Lambda with SQL, Python & R:
 - Ranking algorithm for Elasticsearch that boosted customer retention 30% by predicting the likelihood of a candidate applying to a given job listing using logistic regression
 - o TF-IDF cosine similarity matrix that computes similarity between ISCO job classifications
 - o **NLP** model that detects malicious content with 95% accuracy.
 - Marketing Mix Models to uncover relationships and forecast trends between marketing activities and business KPIs, using data extracted via Google BigQuery, Google Ads API, and Meta Marketing API.
- Built a Shiny-based internal notification tool integrated with OneSignal, allowing dynamic, rule-based targeting of users based on candidate-job fit scores and deployed to AWS EC2. Enabling marketing and operations teams to run campaigns without dev support.
- Integrated and designed Salesforce for the organization, build ETL model for feeding data from MySQL database to Salesforce

Side Projects

gait - CLI tool for reviewing code changes using LLMs. Built with Python's Typer library and OpenAI API.

<u>tefasr</u> - R package for getting historical data of public investment funds in Turkey.

Education

Ozyegin University Istanbul. Turkiye Economics 2019