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EDUCATION

MASTER'S IN DATA SCIENCE - DATA ENGINEERING

Uppsala, SE | Aug 2022

UPPSALA UNIVERSITY

Master Thesis: Large Language Models as Genetic Counselors

Semester Project: Facial Recognition Pipeline Using InsightFace and DeepFace

WORK EXPERIENCE

DWELLIRS AB VIA ACADEMICWORKS | PYTHON DEVELOPER

Uppsala, SE | April 2024 – Current

- Took care of the Snap projects. The main tasks involved were developing, deploying, and debugging the snap. Key contributions were to the public repositories of **Polkadot Snap** and **Erigon Snap**. Technologies involved here are Polkadot SDK, RPC Ap, and Snapcraft.
- Enhanced **Juju charms** with snap support, model modifications, and container setups, improving deployment efficiency and scalability.

VALUECHECKER.AI | PYTHON DEVELOPER / DATA ENGINEER

Stockholm, SE | March 2023 – March 2024

- Led the design and implementation of backend processes including **Web scraping**, **Data normalization and Transformation**. Worked with **AWS services for data storage (S3)**, cataloging with **AWS Glue** and analysis with **AWS Athena**.
- Orchestrated the migration from **Python 2.7 to 3.11**, adopting **Docker** for containerization. Enhanced DevOps processes with **Airflow DAGs** to establish robust data workflows, facilitating complex data processing and automation.
- Created and managed **RESTful** web APIs using **Flask** and **FastAPI**, focusing on optimizing performance and ensuring secure, seamless connections between databases and front-end systems.

GIANT GROUP | SOFTWARE ENGINEER

London, London | Nov 2020 - Aug 2022

- Utilized **Python** and **SQL**, including **SQL scripting**, to execute various operations like driving process efficiency, and enhancing data management.
- Managed front-end and back-end operations using **C#**, **Angular**, **Asp.net web forms**, **MVC models**, **Rest API's**, and **Entity Framework**, ensuring cross-browser and mobile compatibility.
- As a **data analyst**, conducted comprehensive data analysis on large datasets using Python libraries (**Pandas**, **Numpy**, **Matplotlib**) and designed dashboards using **PowerBi**.

PAKISTAN INFORMATION TECHNOLOGY COMPANY | WEB DEVELOPER

LHR, PAK | May 2020 – Nov 2020

- Managed the entire Front End, Backend, and Serverside development of the application using **HTML**, **CSS**, **JavaScript**, **PHP**, **Bootstrap**, **Foundation**, **Form validations**, and **jQuery**. Responsible for working with JavaScript libraries like **charts.js** and **highcharts.js**
- Managed the database operations at **MySQLi PHPMyAdmin**. Testing and Deployment of the application. Daily commits on **SVN**

PROJECTS

MASTER THESIS: LARGE LANGUAGE MODELS AS GENETIC COUNSELORS LLAMA2, PHI-3, TRANSFORMERS, HUGGINGFACE, LLMCHAINS

Master thesis project where we created a Genetic Counselor using LLaMA2 and Phi-3 in the collaborations of Arkus-AI. We used the RAG methodology to implement it and checked our genetic counselor of different metrics to identify which model performed well.

BLIZBID

PYTHON 3.11, FASTAPI, JSON, JAVASCRIPT, JWT TOKEN AND AUTHENTICATION, STRIPE, SSMS, SQL, POSTMAN

BlizBid is a bidding app that allows users to compete for exciting electronics deals. Users can place bids on various products, with the highest bid winning the item. A secure system ensures a fair bidding experience.

CREDIT POLICY CHECKER

PYTHON 3.11, FLASK, JSON, JAVASCRIPT, DOCKER, POSTMAN

A credit policy checker that allows customers to check if they are allowed to get certain offers or loans based on their credit history.

AUTOMATED WEB SCRAPER

PYTHON 3.11, AIRFLOW, AWS S3, AWS EC2, BEAUTIFULSOUP, BOTO3

Project to automate the extraction of phone prices from the website processes the data, and uploads it to AWS S3. It showcases an end-to-end ETL pipeline orchestrated by Apache Airflow, with AWS S3 for storage.

FILE MANAGEMENT

PYTHON 3.7+, FASTAPI, UVICORN, PYTEST, POSTMAN

A program that authenticates users based on their typing patterns. And a spoofer that uses the genetic algorithm to mimic the user's typing pattern.

FACE RECOGNITION PIPELINE

PYTHON 3.11, MACHINE LEARNING, AI, FACE RECOGNITION

The project aims to evaluate and compare the performance of DeepFace and InsightFace frameworks in face recognition tasks, focusing on accuracy, speed, and scalability.

DATA ANALYSIS IN ML

PYTHON, STATISTICAL ANALYSIS, ML, MODEL TUNING

We looked at 1037 film data sets of Hollywood movies and their leading roles. We analyzed the data set, brought insights out of it, and tried to come up with the assumption that we could predict the lead role in a movie based on what features (given in the data set).

FINANCIAL AND SALES ANALYSIS

PYTHON, POWERBI, DATA ANALYSIS

Created the financial report and sales report for the giant group and generated insight from it to have an overall view in terms of the company's progress where does company stands now and what areas to improve.

SKILLS

Languages: Python, C#, PHP, Shell & Bash Scripting, SQL

Web Development & Api: Flask, FastApi, JavaScript, JQuery, MaterialUI, HTML/CSS

Technology: Git, GitLab, CI/CD, Bash, Linux, AWS, RestApi's, Docker, Apache Airflow, SSMS, Selenium, Postman, Grafana, Juju Charms