HAMZA SHOUKAT

Python Engineer

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PROFILE

Dedicated Python Engineer passionate about Data and data-driven solutions. With a solid background in Software Engineering, my expertise extends to data management and back-end using Python framework like Django and front-end technologies to create user-friendly interfaces, ensuring not just functional applications but data-driven insights. My passion for this tech stack and problem-solving has led me to undertake personal projects, contributing to more than 10 open-source projects on GitHub. Looking forward to contributing my abilities and being a part of a dynamic team committed to make a meaningful impact in the realm of Python and Data Engineering.

TECHNICAL SKILLS

- Python, Django, DRF
- Data Science, Machine Learning
- Selenium, Scrapy
- HTML, Bootstrap, JQuery, AJAX
- MySQL, PostgreSQL

WORK EXPERIENCE

Full Stack Developer | Data Engineer   JULY 2023 – PRESENT
Truckistan Technologies / NIC LUMS, DHA, Lahore, Pakistan
Working as a Full stack developer. As a part of the Truckistan development team, my key responsibilities are:

- Deployment of various models like Llama2-13b, Falcon, Claude v2, and e5-Large on AWS Sagemaker, utilizing data engineering techniques to manage and preprocess input data effectively.
- Creation of smart LLM knowledge based chatbots and LLM SQL based chatbots with deep knowledge to assist users effectively.
- Prompt Engineering for continuous improvement of systems for better results.
- Spearheading the creation of a comprehensive logistics platform, seamlessly managing tracking and order booking processes. Ensuring a user-friendly interface for user experiences.
- Constantly enhancing the platform by conceiving and implementing innovative features to elevate the efficiency of expense handling procedures.
- Developing automated reporting mechanisms for timely and accurate financial analysis.
- Writing robust APIs to connect front-end and back-end functionalities, ensuring smooth communication and optimal system performance.

Python AI/ML   JUNE 2022 – JULY 2023
ILSA INTERACTIVE / 455-G3, Johar Town, Lahore, Pakistan
Worked as a Python and Machine learning Engineer. As a part of the AI FAYVO team, my key responsibilities were:

- Utilized web scraping techniques to gather data from diverse platforms for Machine Learning models.
- Implemented seamless integration of ML models into Django applications.
- Improve adult content detection and categorization by leveraging Random Forest with Google API labels and explicit label extraction.
- Written Python scripts to clean and preprocess image and video datasets.
- Conducted in-depth research to develop and implement novel techniques that boost accuracy.
- Utilized the Matrix Factorization technique to create effective item recommendation systems.
- Prepared and optimized the GPT text-embedding-ada-002 Model for efficient item recommendations.

Python Developer   JUNE 2021 – MAY 2022
SAW DEVELOPERS / 28K, DHA Phase 1, Lahore, Pakistan

Worked as a back-end and front-end developer on a multi-vendor e-commerce website. I was part of a small team. My key responsibilities were:

- Effectively organized media and static directories using Django's Model-View-Template architecture.
- Developed and maintained the backend functionalities for admin, seller, and customer portals.
- Designed and built multiple pages using HTML, Bootstrap, JQuery, and Ajax to create a seamless user experience.
- Ensured smooth integration between the frontend and backend components, providing a cohesive and responsive application.
- Managed the codebase using GitHub for version control and deployed the application on an EC2 instance in AWS.

EDUCATION

SUPERIOR UNIVERSITY   JUNE 2022
BS in Software Engineering   *Lahore, Pakistan*

SOFT SKILLS

- Teamwork, Adaptability
- Communication, Critical thinking
- Problem-solving, Interpersonal