Muhammad Ramzan Khan

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PROFESSIONAL SUMMARY

Highly motivated and results-oriented Data Engineer with hands-on experience in building efficient data pipelines, automating workflows, and integrating advanced technologies. Skilled in data extraction, transformation, and visualization, leveraging tools like Pentaho, Python, PostgreSQL, and cloud platforms to drive data-driven decision-making. Proven ability to deliver tailored solutions, optimize processes, and integrate AI/ML models, enhancing operational efficiency and insights.

SKILLS

AWS Cloud | Pentaho | Python | C++ | Java | JavaScript | SQL | PostgreSQL | Selenium | Flask | OCR | Docker | HTML 5 | CSS | MS Office

EDUCATION

PMAS Arid Agriculture University, Rawalpindi

BS Information Technology   2018 – 2022

Courses: Object Oriented Programming (oop), Data Structures and Algorithms, Programming Fundamentals, Modern Programming Languages, Data Administrator, Database Administrator

EXPERIENCE

Kavtech Solutions (Pvt.) Limited | (Jan-2024 - Present)

AWS Cloud Data Engineer

- Collaborating with the customer's technical team to gather technical requirements such as performance, maintainability, and scalability
- Producing design documentation
- Managing the approval and acceptance process for the designs and their implementation in cooperation with the client
- Develop ETL and Data Warehouse solutions according to the requirements
- Resolving ongoing maintenance issues and bugs
- Monitoring daily scheduled jobs as well as performance tuning of transformation and jobs
- Supervising and overseeing the technical aspects of projects
- AWS ETL Pipe lines
- Pentaho Base ETL Pipelines
- PostgreSQL
- RDS Database

Freelance | (Sep-2022-Dec-2023)

Python Engineer

- Extracted and processed data from diverse sources, including CSV files, web scraping, API and text documents.
- Designed and implemented data cleaning pipelines to standardize and prepare datasets for analysis
- Developed Python-based automation scripts to optimize repetitive tasks, saving clients significant time and effort.
- Automated data collection and processing workflows, integrating APIs to streamline operations.
- Integrated GPT APIs with prompt engineering into web-based applications, enabling advanced language-processing capabilities.
- Worked on model training, fine-tuning, and deploying prediction systems for client-specific use cases.
- Visualized data insights using libraries like Matplotlib and Seaborn.

- Delivered tailored data analysis and visualization tools using Python and R to help clients make informed decisions.
- Built robust API integration solutions to connect systems based on custom client requirements.
- Collect data from different sources and train model using scikit-learn and validate model and then deploy using stream-lit and flask API.
- I build a web app using Node JS and simple HTML, JavaScript, CSS using Open AI API to generate Image and Text like Dalle 2, Chat GPT and deploy at Linux server you can visit and check interface ramzankhan.tk. Free Trial expire due to not in working
- Train a custom AI model for Number Plate recognition using TensorFlow Keras model after that using Easy-OCR extract number from image and check it in database, and data set download from Kaggle.
- Design a web interface for user interaction with system in flask and HTML, CSS, JavaScript, Bootstrap.
- Developed a windows application for student record management in C# visual studio connect app with MySQL for storing data.
- Developed Flappy Bird 2d game using Unity to design an interactive game.
- Implemented a comprehensive data management system in C++ language to efficiently handle and organize booked Flight information for a company by incorporating diverse data structures including structure, functions and arrays.
- Created a banking management system using OOP concept classes, inheritance, constructor and friend functions in C++ language. Store user accounts data.

PROJECTS

- Data Processing and Transformation
- Automation and Scripting
- Web Scrapping
- AI and ML Integration
- Salary Prediction using ML
- Open AI API
- Vehicle Recognition System through Website and AI (Final Year Project)
- Student Management System
- Flappy Bird
- Air Line Reservation System
- Bank Management system

CERTIFICATIONS

- Data Science Foundations
- Data Visualization with Power BI
- AI & ML Fundamentals
- AWS Fundamentals
- Intro to Data Warehousing