

Waqas Dost

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Education

National University of Computer & Emerging Science, B.S Computer Science 2020 – 2024

Relevant Coursework (Data Structure & Algorithms, Database Systems, Software Design & Analysis, Artificial Intelligence, Web Programming, Information Security, Data Science, NLP)

Skills

Data Science: Python, SQL, Tableau, Data Visualization, Machine Learning, Feature Engineering, Model Evaluation, Scikit-learn, Pandas, NumPy, Data Preprocessing, Flask APIs, RESTful APIs, Jupyter, PostGIS.

Data Engineering: ETL Pipelines, Data Migration, PostgreSQL, PostGIS, AWS (S3, Lambda), Jenkins, Docker, Web Scraping, Automation (Python & n8n), Elasticsearch, Data Validation, JSON/XML Handling, MVC Architecture, API Integration, Data Cleaning, Workflow Optimization.

Agentic AI / Automation: LangChain, AI Agents, Retrieval-Augmented Generation (RAG), n8n (beginner), Retool, OpenAI API, Document Parsing, Workflow Automation, Prompt Engineering, Flask + AI Integration, Smart Agents for Zoning/Land Use

Work Experience

Zoneomics

Islamabad, Pakistan

Assistant Data Scientist (**Python , PostgreSQL, AWS, Elastic Search, BI, Retool**) Oct 2024 – Present

- Designed and deployed scalable systems using Python, PostGIS, and AWS to transform complex zoning and geospatial data into actionable insights. Built automated ETL pipelines to extract, clean, and process data from APIs, websites, and files, significantly reducing manual workload.
- Managed large-scale spatial databases (PostgreSQL + PostGIS) for nationwide zoning accuracy, and developed RAG-based AI agents for zoning analysis and land use classification. Delivered geospatial data at scale through RESTful APIs built with Flask, Docker, and AWS.

Projects

ETL Pipeline for Address Data (Python, PostgreSQL, AWS RDS, Folium, Jenkins, Docker)

- Built an end-to-end ETL pipeline in Python to extract, clean, and transform address data from CSV files; loaded structured data into both local PostgreSQL and AWS RDS, enabling fast, scalable querying for analytics workflows.
- Automated the pipeline with Jenkins and Docker for consistent execution, and used Folium to create interactive maps visualizing address distribution by U.S. state, enhancing spatial analysis capabilities.

Cities Dashboard Comprehensive Urban Analytics Tool (PostgreSQL, JavaScript, Retool, Automation, Visualization)

- Developed an interactive dashboard to present real-time urban metrics across multiple cities, supporting strategic planning and data-driven decision-making for city development.
- Integrated advanced visualizations and automated data pipelines using PostgreSQL and Retool, enabling dynamic updates and seamless stakeholder access to key urban KPIs.

Extra-Curricular

FINANCE HEAD AND PHOTOGRAPHER, CRICKET, GYM.

Certification And Courses

Data Manipulation in SQL Python DataCamp, Tableau DataCamp, Agentic AI Crew AI
Joining Data in SQL DataCamp