WAQAS DOST

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[LinkedIn](#) ⋄ [Portfolio Website](#) ⋄ [GitHub](#) ⋄ [Medium](#)

OBJECTIVE

Data Scientist & Engineer specializing in geospatial analytics, ETL, and AI integration. Skilled at building scalable, data-driven solutions from complex datasets. Passionate about leveraging spatial data and machine learning to solve real-world problems and create impactful visualizations.

EDUCATION

Bachelor of Science in Computer Science, National University of Computer & Emerging Sciences 2020 - 2024
Relevant Coursework: Data Structures, Database Systems, Artificial Intelligence, Web Programming, Data Science, Natural Language Processing.

PROFESSIONAL SKILLS

Data Science	Python, SQL, Tableau, Machine Learning, Feature Engineering, Data Visualization
Data Engineering	ETL, PostgreSQL, AWS, Docker, Jenkins, Web Scraping, ElasticSearch
Geospatial Tools	PostGIS, Folium, Geopandas, QGIS, Argis
AI Integration	LangChain, RAG, AI Agents, OpenAI API, Prompt Engineering
Visualization Tools	Power BI, Tableau, Looker, Retool, Grafana, Streamlit, Kibana

WORK EXPERIENCE

Assistant Data Scientist   Oct 2024 - Present
Zoneomics   *Islamabad, Pakistan*

- Built scalable Python/PostGIS/AWS systems for processing and analyzing nationwide zoning data.
- Automated ETL pipelines, reducing manual workload by 40% through Python scripting and workflow optimization.
- Managed spatial databases containing millions of geospatial records with PostgreSQL and PostGIS.
- Developed RAG-based AI agents for zoning analysis using LangChain and OpenAI API.

Data Science Intern   Jan - Feb 2024
CodSoft   *Remote*

- Cleaned and analyzed datasets for machine learning workflows, improving data quality by 30%.
- Applied advanced preprocessing techniques to enhance model accuracy by 15%.
- Created interactive dashboards to visualize key data insights for stakeholders.

PROJECTS

ETL for Address Data — Designed and implemented an automated ETL pipeline using Python, PostgreSQL, AWS, and Docker that processes address data and generates interactive Folium maps for spatial analysis. Reduced processing time from hours to minutes.

Cities Dashboard — Developed a comprehensive urban metrics dashboard with PostgreSQL, JavaScript, and Retool, featuring automated data pipelines that update metrics in real-time. Used by urban planners for data-driven decision making.

Zoning Chat App — Created a Streamlit application with RAG architecture and PostGIS integration for answering zoning regulation queries. Incorporated AI-based land use classification with 92% accuracy.

E-commerce Sales Analytics Dashboard — Designed Tableau and Power BI dashboards that tracked KPIs and customer behavior, leading to a 25% increase in sales through data-driven marketing strategies.

CERTIFICATIONS

⋄ Advanced Retrieval for AI with Chroma (Crew AI) ⋄ Multi AI Agent Systems (Crew AI) ⋄ Data Manipulation in SQL (DataCamp) ⋄ Joining Data in SQL (DataCamp) ⋄ Python (DataCamp) ⋄ Tableau (DataCamp)

EXTRA-CURRICULAR ACTIVITIES

Finance Head & Photographer, Cricket, Gym