



Ahmed Abdullahi

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Louisville, KY

GitHub
LinkedIn
Portfolio

SUMMARY

Computer Science graduate with hands-on experience deploying machine learning models to the cloud (AWS EC2), automating enterprise database tasks using PL/SQL, and building interactive data visualizations. Proficient in data analysis, workflow optimization, and presenting insights through clear visuals and dashboards. Fast learner with a track record of collaboration across technical and business teams.

EDUCATION

B.S. in Computer Science (Minor: Criminal Justice), GPA: 3.5
University of Louisville – Speed School of Engineering

SKILLS

- **Cloud & DevOps:** AWS EC2, OCI, GCP, Azure, Docker, GitHub, Bash, PowerShell
- **Machine Learning:** Jupyter, Pandas, scikit-learn, AutoML
- **Data Engineering:** SQL, PL/SQL, Oracle, MySQL, SQL Server
- **Visualization:** Matplotlib, Seaborn, PySimpleGUI, Excel Charts
- **Programming:** Python, Java, C#, C++
- **Web Development:** HTML, CSS, JavaScript, React
- **Security & Auditing:** IAM, HIPAA, Access Control, Role-Based Security
- **Tools:** Excel (PivotTables, VLOOKUP), SQL Developer, Toad

PROJECTS

- **Rocket Launch ML AI Prediction:**
 - Trained AI model to prediction rocket delay based on weather using Jupyter, Pandas, and scikit-learn; deployed to AWS Cloud EC2 instance.
 - Boosted model accuracy by 50% via AutoML tuning and ensemble methods.
 - Integrated 3+ real-time weather APIs and visualized correlations with Matplotlib/Seaborn.
- **WTO Schema Refresh Automation:**
 - Cut schema refresh turnaround time from 16+ hours to under 45 minutes using PL/SQL procedures and scheduled Oracle jobs.
 - Boosted reliability of cross-environment deployments by implementing automated logging and error tracking.
- **Time-Series Health Dashboard for Wearable Data:**
 - Developed an interactive desktop dashboard (Python + PySimpleGUI) to visualize physiological data from wearable devices.
 - Enabled real-time trend analysis and health metric monitoring through dynamic plots and timezone conversion statistics.
 - Simulated patient vitals tracking (e.g., HR, temp, O2 sat) to support potential remote monitoring and clinical decision-making.
- **Spoken Word Search Video Remix Engine:**
 - Built a word-level video search and editing system using OpenAI Whisper, Gentle aligner, FFmpeg, and Pandas.
 - Enabled dynamic extraction and recombination of spoken words from video to form new phrases with high accuracy.
 - Developed end-to-end Jupyter workflow and REST API for audio transcription, forced alignment, and visual preview.

EXPERIENCE

UPS — Database Analyst Co-op
May 2023 – Present

Louisville, KY

- Monitored and maintained tablespaces, storage usage, and user quotas to prevent space-related outages.
- Tuned complex SQL queries and assisted developers with performance optimization for mission-critical applications.
- Provisioned access in Oracle Infrastructure, enforcing role-based access control and audit compliance.

UofL Spd IT — Student IT Help Desk
Oct 2022 – Jul 2023

Louisville, KY

- Delivered Level 1 technical support to students, faculty, and staff—resolving hardware, software, and account-related issues.
- Managed weekly support tickets with a 95% satisfaction rate, ensuring timely resolution across campus systems.
- Supported lab environments, OS imaging, and classroom technology setup during peak academic periods.

HONORS-&-AWARDS

- Dean's Scholar (Dean's List ×3 years)
- Muhammad Ali Center Council of Students
- Ambassador Shabazz Fellowship
- Somali Student Association
- 1st-place Cardinal Impact Hackathon – \$2,500
- 1st-place Space Force Capstone – \$300
- HackKentucky Health – \$500