

Uthman Jinadu

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SUMMARY

Versatile data professional with expertise in machine learning, deep learning, cloud computing, advanced analytics, and data warehousing. Skilled in Python, SQL, and Cloud computing tools. Proven experience in predictive modeling, developing models, and creating retrieval-based models for semantic search. Proficient in designing and optimizing ETL/ELT pipelines to enhance data flow and quality for analytics. Seeking opportunities to apply comprehensive data expertise in innovative environments.

SKILLS

Languages and Scripting: Python(Numpy, Pandas, Matplotlib, Scipy, Seaborn, Scikit-learn, Pytorch, Tensorflow, Unittest, Pytest, Flask, Boto3), MS Excel, Beautiful Soup, SQL, Git, Linux, Windows Powershell, Javascript, NoSQL.

Machine Learning: Predictive Modeling, SVM, Machine Learning Algorithms(Linear Regression, Logistic Regression, Decision Tree, K-means Algorithm, KNN Algorithm, Neural Network, PCA, NLTK, BERT).

Data Visualization – PowerBI, Tableau, Sigma

Cloud Computing Services – AWS Core Services(S3, IAM, EC2, DynamoDB, Amazon Athena), Data Processing and Analytics(AWS Glue, AWS EMR, Kinesis, Data Ingestion using Lambda, Pyspark). Azure Services. (Azure Synapse Analytics, Azure Data Factory, Azure Databricks), GCP(BigQuery, Bucket, AI Vertex Platform)

Data Warehouse - Data Lake, Postgres, SQL Server, AWS Data Warehousing, Azure SQL Data Warehousing, Snowflake.

EXPERIENCE

Research Data Scientist, The Home Depot - Atlanta, Georgia
present

January 2024 –

- Developed a retrieval-based model for semantic search and implemented multi-objective optimization techniques for e-commerce applications.
- Enhanced retrieval efficiency through improved product search relevance and personalized recommendations.
- Designed and implemented personalized search and recommendation algorithms, increasing engagement and conversion rates by tailoring search results to individual user preferences.
- Applied multi-objective optimization to balance competing goals, such as relevance and diversity in search results, leading to more comprehensive and user-friendly search experiences.
- Collaborated with data scientists and product teams to align retrieval model improvements with business objectives, ensuring a strong focus on customer satisfaction and business impact.

Machine Learning Research Assistant, COE-DOD, GSU - Atlanta, Georgia

August 2022 – present

- Developed a novel formulation of Multitask learning with loss-based noise correction.
- Implemented a means to separate agreeing and disagreeing annotations to detect noise and disagreement.
- Enhanced dataset annotation accuracy by 25% and improved fairness in sentiment analysis by implementing a multitask learning and loss-based correction strategy, resolving disparities in annotator opinions.
- Developed a model using SVC classifier and PCA to classify breast tumors with a dataset of 570 instances, reducing feature dimensionality by 40% and achieving 90% accuracy in distinguishing malignant from benign tumors.
- Analyzed and enhanced an employee dataset comprising over 10,000 records, filling in 15% of missing data, and identifying key trends. Leveraged PowerBI to create visualizations that improved data-driven decision-making processes across the department.
- Directed a fall detection initiative, processing and analyzing sensor data from 200+ participants. Trained machine learning models that achieved 90% accuracy in real-time fall prediction, significantly enhancing safety measures for the elderly.

Data Scientist & Engineer, Newzone System Concept

January 2019 - July 2022

- Leveraged statistical and ML models to devise dynamic loan pricing strategies, resulting in a 20% increase in profitability and a 25% boost in market competitiveness within the first year of implementation.
- Partnered with cross-functional teams to analyze and transform over 5TB of raw data annually into actionable insights, driving key strategic business decisions that led to a 15% improvement in operational efficiency.

- Designed and developed SQL-based data models, creating a scalable and high-performance data warehouse. Achieved a 30% improvement in data retrieval efficiency through SQL performance tuning and optimizing PostgreSQL data pipelines.
- Engineered and enhanced ELT/ETL processes, utilizing advanced SQL and data modeling techniques to streamline data pipelines for BI reporting. This resulted in a 25% reduction in data processing times and supported a 50% increase in reporting capabilities.

Data Scientist and Engineer, Quorizon Company Limited

March 2014 – December 2018

- Designed and Implemented an ESG scoring model, leveraging NLP and ML to assess companies' Environmental, Social, and Governance practices. This model improved investment decision-making and compliance reporting by 30%.
- Crafted 100+ SQL reports yearly, clarifying insights for non-technical stakeholders, and enhancing decision-making by 15%.
- Led 5+ data migration projects, transferring 10TB+ with zero downtime, and maintaining uninterrupted business operations.
- Improved ETL efficiency by 40%, cutting data processing times and boosting analysis capacity by 20%.
- Enhanced data accuracy by 25% through Python, processing over 5TB, enabling reliable analytics and reporting.

EDUCATION

Georgia State University,

Ph.D, Computer Science

GPA: 4.00/4.00

August 2022 – Dec. 2026

National Open University of Nigeria,

Bachelor of Science, Mathematics and Computer Science.

GPA: 3.63/4.00

The Federal Polytechnic Offa,

Bachelor of Science, Computer Science.

GPA: 3.63/4.00

PUBLICATIONS

- Noise Correction on Subjective Datasets. (ACL 2024 Main Conference Acceptance).
<https://arxiv.org/pdf/2311.00619>
- Loss Modeling for Multi-Annotator Datasets. (NeuRIPS 2023 AFT Workshop).
https://www.researchgate.net/publication/376232670_Loss_Modeling_for_Multi-Annotator_Datasets.

CONFERENCES ATTENDED

- Association for Computational Linguistics (ACL 2024), Bangkok, Thailand (Paper Presenter)
- Computing Research Association, GRAD Cohort for IDEALS Workshop. (April 2024)
- Neural Information Processing System (NeuRIPS 2023), New Orleans (Paper Presenter)
- ACM CHI Conference on Human Factors in Computing Systems (CHI 2023), Hamburg, Germany.
- National Conference on Information and Communication Technology (ICT) in Education (Hackathon), Federal Ministry of Education, Abuja, Nigeria. May.21-22, 2012.
- 5th National Conference on Science and Technology, School of Applied Science and Technology, The Federal Polytechnic Offa. (Paper Presenter).