Hemstone Chilluba

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SUMMARY

With over 3 years of experience as an Electronic & Computer Engineer transitioning into Data Science, I specialize in Python programming, data analysis, machine learning, and big data technologies. I have successfully executed complex data-driven projects and am eager to contribute my skills to innovative solutions that bridge technology and human needs.

EXPERIENCE

Python Developer – LLM Engineer | Turing | Palo Alto, California | June 2024 – Present
· Conduct unit tests and performance evaluations on LLM implementations, ensuring 98% test coverage.
· Develop large language models (LLMs) in Python, improving NLP task performance by 15%.
· Fine-tune transformer-based models (BERT, GPT) for specific applications, reducing error rates by 10%.
· Implement custom tokenization and embedding techniques, enhancing text understanding and processing speed by 20%.
· Design and optimize training pipelines for LLMs, reducing model training time by 25% on large datasets.
· Collaborate with data scientists and engineers to deploy LLM solutions, increasing application efficiency by 30%.

Backend Developer | Ngwala Inventions | Dar-Es-Salaam, TZ | June 2023 – January 2024
· Developed and maintained server-side applications using Python and Django, supporting over 10,000 daily users with 99.9% uptime.
· Designed and optimized database schemas, reducing query response time by 30% and improving data storage.
· Implemented RESTful APIs, enabling seamless communication between front-end and back-end systems.
· Ensured application security and data integrity through rigorous testing, achieving a 0% data breach rate and 95% code coverage.
· Collaborated with cross-functional teams, delivering scalable software solutions that increased system capacity by 40%.

Data Analyst | Bor System Kenya Limited | Eldoret, KE | January 2023 – May 2023
· Used SQL for data extraction and manipulation, processing datasets with over 500,000 records, reducing query times by 25%.
· Leveraged Pandas for data cleaning and preparation, improving data quality by 30% and reducing processing time by 25%.
· Applied regression analysis, hypothesis testing, and predictive modeling (scikit-learn, StatsModels), boosting model accuracy by 10%.
· Created data visualizations with Matplotlib, Seaborn, and Tableau, improving stakeholder understanding by 20%.
· Developed dashboards and reports using Power BI and Qlik Sense, reducing reporting time by 40%.
· Collaborated with cross-functional teams to provide data insights, driving a 15% improvement in decision-making.

Network Business Intelligence Intern | Kenet (Kenya Networking) | Nairobi, KE | January 2022 – July 2022
· Extracted and manipulated data from databases with 500,000 records using SQL and Python, improving query performance by 20%.
· Conducted exploratory data analysis on 200,000+ entries with Matplotlib and Seaborn, increasing efficiency by 15%.
· Implemented machine learning algorithms with scikit-learn, boosting accuracy by 10%.
· Developed deep learning models using TensorFlow and Keras, reducing prediction error by 8%.
· Analyzed network performance, optimizing infrastructure, and reducing downtime by 25%.
· Used machine learning for network security, detecting threats with 95% accuracy.

EDUCATION

Bsc Electronic & Computer Engineering | Jomo Kenyatta University of Agriculture & Technology (JKUAT) | 2022

SKILLS

Front End and Backend: HTML, CSS, Javascript, Python, Django, Angular, Golang, Java

Ops: Docker, Kubernetes, Spinnaker, Terraform, Helm, ELK, Prometheus, Grafana, Azure and AWS production loads

Databases: MySQL, PostgreSQL, MongoDB, Redis, ElasticSearch, Databricks

IOT: MQTT, AMQP, CoAP, LoRaWAN, NB-IoT, CAT-M, 5G, LTE