

ABISH PIUS

Data Scientist - LLM Engineer

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🌐 <https://abishpius.github.io/Abishpius/>

WORK EXPERIENCE

Data Scientist

United States Steel Corporation

📅 Jan 2021 – Current

📍 Pittsburgh, PA

- Led Generative AI use cases for USS Private GPT, two Q&A tools, and an AI structured data Analyst all utilizing langchain. Scoped and improved prompt statements plus utilized few shot learning to fine tune outcomes. Final product was demo'd in Google Next '23 Keynote speech.
- Designed iron ore price 6-month forecasting model alongside a hedging decision strategy with expected returns >10% compared to baseline. Productionalized ingestion and modelling pipelines using kedro.
- Counted pipe inventory for different production plants using Azure custom vision and Oracle vision tool with 98% precision.

Freelance Big Data Solutions Expert

UpWork

📅 October 2021 – Current

📍 ID: freelancers/ 01d2db74395151722c

- Completed 40+ jobs, received Expert Vetted status (top 1%) and earned membership in the Stanford Talent Cloud for successful analysis on Sensomics startup data within GCP Vertex AI.
- Consulted as a Data Science Lead for Trajum Analytics reducing medical appointment booking churn 30% through a hosted model endpoint on GCP AI Platform API.
- Consulted Vitro Technology Corporation in building a POC dashboard for SNMP Thingsboard data in AWS utilizing S3, Redshift and QuickSight.

Data Scientist

McGowan Institute of Regenerative Medicine

📅 July 2017 – Sep 2020

📍 South Side, PA

- Pre-processed large genomics data parallelly on multiple compute nodes using bash and slurm scripting. Cleaned and visualized gene sequencing data using R Bioconductor and Python Scanpy to display differences in skeletal muscle health.
- Utilized Cell Profiler CNNs to segment cells from fluorescent microscopic images and used random forest algorithms to classify young versus old muscle stem cells as well as PCA to identify distinct cell subpopulations.

EDUCATION

Masters of Science in Computational Biomedicine

University of Pittsburgh

📅 2019 – 2020

Bachelor's of Science in Neuroscience

University of Pittsburgh

📅 2013 – 2017

📍 Minors: Chemistry, Mathematics

SKILLS

Python R Bash SQL PySpark
TensorFlow PyTorch OpenCV
LLMS AWS Azure OCI Kedro
Prompt Engineering Langchain Git
Docker

CERTIFICATIONS

AWS Certified Machine Learning - Speciality

AWS

📅 March 2023 – March 2026

Professional Machine Learning Engineer Certification

Google

📅 April 2024 – April 2026

PROJECTS

Data Science Subject Matter Expert

Emeritus Course Consult

📅 November 2021 - May 2022

- Consulted as SME for two courses, CMU's Introduction to Computer Vision and NYUT's Using Data Science to Manage Cyber Risk
- Reviewed course materials for accuracy and designed/updated questions and exercises within Canvas and Codio.

Streamlit Web Application

Deep Learning Financial Time Series Model

📅 September 2020

- Used TensorFlow to create a DL LSTM model to forecast univariate time series to specified period.
- Created web application with Streamlit and hosted project as container on Heroku.

Machine Learning Competition

ICR - Identifying Age-Related Conditions

📅 August 2023

- Predicted if a person has any of three medical conditions medical conditions using Optuna to tune an ensemble of Random Forest, XGB and lightGBM models in Python
- Placed in top 9% of submitted models