TENICKA NORWOOD

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DEVELOPER ADVOCATE

Experience in data acquisition, visualization, data mining, statistical analysis, machine learning, deep learning, and NLP. With a physics and computing education background, I bring flexible design and product development skills that help technology companies streamline systems and boost team cohesion and performance levels. My commitment to compliance and ethical data practices, coupled with a client-centric approach, has consistently delivered tangible results.

TECHNICAL SKILLS

Python, SQL, sci-kit-learn, NumPy, Pandas, Keras, Microsoft Excel, GitHub, Jupyter Notebook

TECHNICAL PROJECTS

Image Classification with Deep Learning - github.com/dataeducator/image_classification_with_deep_learning
Deep learning model utilizing Convolutional Neural Networks (CNNs) to classify pediatric chest X-ray images accurately
- Developed a deep learning model utilizing CNNs to classify 5863 pediatric chest x-ray images, focusing on optimizing F1 scores for precision-recall balance.
- Achieved F1 scores of 0.84 for the Normal class and 0.92 for the Pneumonia class during CNN classification.

Healthy Heart: Predictive Modeling for Cardiovascular Health - https://github.com/dataeducator/healthy_heart
Uses linear regression, pandas, NumPy, and exploratory data analysis to predict and analyze home prices in the King County dataset
- Developed a predictive model for cardiovascular health assessment using diverse medical records, lifestyle data, and diagnostic tests.
- Documented codebase and dependencies for robustness and reproducibility, enabling seamless collaboration with fellow data scientists and researchers.

EXPERIENCE

Data Lead, **New York City Department of Education**, New York, NY   09/ 2019 - present
- Implemented a targeted intervention computer information system from visualizations and statistical analysis, resulting in an increased graduation rate from 68% to 90% in the 2022 school year.
- Restructured support team and secured additional funding, raising graduation rate for students with disabilities from 59% to 85%.

Physics Teacher, **Company Name**, New York, NY   09/ 2011 - 09/2018
- Introduced teacher-led professional development strategies to help them manage and enhance student mastery of physics content knowledge for +50 teachers across New York City.
- Designed a full-year curriculum aligned with Common Core and Next Generation Science Standards, downloaded over 5K times since creation with a Creative Commons license.

EDUCATION

Flatiron School, New York, NY   09/ 2023
Data Science program

Pace University, New York, NY   05/ 2013
Master of Science (MS), Physics Education

Norfolk State University, Norfolk, VA   05/ 2007
Master of Science (MS), Optical Engineering

Spelman College, Atlanta, GA   05/ 2005
Bachelor of Science (BS), Physics