KELLY LAVERTU

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PROFESSIONAL SUMMARY

Results-driven and analytically minded professional with a strong foundation in programming, mathematics, and education. Proficient in gathering, cleaning, and organizing data using Python, R, Java, and SAS. Eager to transition to a Data Scientist role, leveraging expertise in data analysis, statistical modeling, and machine learning for driving actionable insights and business success.

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- R
- SAS
- SQL
- MATLAB
- Java
- LaTeX
- Excel

• Data analysis

- Regression analysis
- Statistical analysis
- Data modeling and visualization
- Algorithm analysis and development
- Linear and logistic regression
- Decision trees
- Random forests
- Gradient boosting
- Convolutional Neural Networks (CNNs)
- Clustering
- Principal Component **Analysis**
- Generative Adversarial Networks (GANs)
- Deep learning

Detecting Bacterial and Viral Pneumonia in Chest X-Ray Images – Pandas, NumPy, and Matplotlib

• Developed deep learning models using transfer learning, CNNs, and GANs to improve the accuracy of pneumonia detection in chest x-ray images

PROJECTS

SKILLS

Star-Galaxy Classification Using Machine Learning Techniques - TensorFlow and Keras

• Implemented decision tree models and CNNs for star-galaxy classification

Digit Recognition

• Improved digit recognition accuracy from 96% to 97.6% using k-nearest neighbors and CNNs

AP Computer Science Teacher

07/2021 to Present

Gwinnett County Public Schools, North Gwinnett High School - Suwanee, GA

- Analyzed and visualized student progress data using pivot tables, graphs, and charts in Excel
- Achieved a 94% passing rate on the AP exam in the first year of teaching
- Planned and implemented curriculum to teach Java to students grades 10-12

Computer Science STEM Resident

07/2020 to 07/2021

GCPS, Gwinnett School of Mathematics, Science, and Technology - Lawrenceville, GA

- Mentored 140 students in computer science procedures and Java programming
- Provided an environment conducive to students' intellectual and emotional development
- Collaborated with a team to develop and revise assessments based on modern standards

Programming Analyst

DATAMATX – Chamblee, GA

07/2017 to 09/2019

- Developed applications to automate document distribution, conducting full life cycle software development in multiple environments, resulting in an 90% reduction in manual effort
- Leveraged programming skills and analytical thinking to create 4 quick prototypes and proof of concepts per week while collaborating closely with clients
- Identified and resolved issues within applications, ensuring efficient data processing
- Prepared detailed analyses, plans, diagrams, and verification procedures to present to

WORK **HISTORY**

EDUCATION

Master of Science: Computer Science, concentration in Data Science

Kennesaw State University - Kennesaw, GA

Bachelor of Science: Mathematics

Kennesaw State University – Kennesaw, GA

Expected 12/2023

12/2016