

Vania Todorova

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EDUCATION

University of Missouri- Kansas City
M.S. Computer Science- Data Science

GPA 3.74

May 2022

University of Missouri- Kansas City
May 2019

Bachelor of Arts in Computer Science

University of Missouri- Kansas City
May 2019

Bachelor of Science in Math& Statistics

University of Missouri- Kansas City
Dec 2011
Doctor of Musical Arts- Piano Performance

WORK HISTORY

Signify(formerly Philips Lighting) – Cambridge , Ma

Deep Learning/ Time Series Research Intern

January-

May 2022

- Anomaly detection using machine learning and deep learning methods
- EDA
- Predictive Maintenance

Chemours – Wilmington , De

May August2021

Data Scientist Co-op

- Defect classification exploring Computer Vision and Deep Learning methods for Unsupervised learning , Self Supervised Contrastive Learning
- Data Analysis, Apriori and Time Series for defect prediction

Dimensional Innovations

October

2019- May 2021 Data Scientist

- Build a continuous data pipeline from various sensors and devices to deliver data for analytics through ReST API's
- Data cleaning

- Firebase- Gcloud database for data storage
- Time Series Forecasting- exponential smoothing, ARIMA, SARIMA, LSTM
- Visualization in Tableau- build dashboards that visualize various stats and predictions from the data. Build graphs, tiles, data/image pipelines using various calculations and other Tableau techniques.
- Build image filters for installations

UMKC – School of Computing and Engineering

Graduate Research Assistant

- Read 16-18 century manuscripts using Deep learning methods
- Image pre-processing using various filters , transforms , morphological techniques
- Segmentation
- CRNN for processing the documents

COX Automotive

May-Aug 2019

Machine Learning Graduate intern

- Create an algorithm to find best channel to communicate with a customer
- Create an algorithm to find best time to communicate with a customer
- Use AWS – SageMaker, S3 buckets

Rockhurst University

August 2015 -present Piano instructor

- teaching individuals lessons – Piano 1,2,3,4
- assign semester long projects

SKILLS

- Proficient in Python, SQL, Tableau, AWS , Gcloud, R, Matlab
- Data Mining
- Data Analysis
- Deep Learning, Machine Learning and Statistics
- Pytorch, Tensorflow, Keras
- Computer Vision, PIL, Opencv, Sci-image, Image Manipulation, Filters
- Natural Language Processing
- Time Series Forecasting
- Regression Analysis

RELEVANT CLASSES

Applied Numerical Methods, Regression Analysis, Time Series, Probabilistic Graphical Models, Computer Vision1&2 (Filters and Segmentation techniques), Digital Image Processing, Mathematical Statistics 1&2(graduate), Neural and Adaptive Networks , Intro to Statistical Learning, Intro to Databases, Python& Deep Learning, Intro to Cryptography, Intro to Operating Systems, Software Engineering Capstone , Design and Algorithm, Foundations of Software

Engineering, Data Structures, Intro to Math Stats 1&2, Partial Differential Equations, Ordinary Differential Equations, Linear Algebra 1&2, Advanced Analysis , Sets and Proofs, Calculus-1,2,3

Additional Courses

Neural Networks and Deep Learning (Andrew Ng/Coursera)

Bayesian Methods for Machine Learning(Coursera)

OpenCV(learnopencv.org)

Stochastic Processes (Coursera)

Practical Time Series (Coursera SUNY)

Fundamentals of Digital Image and Video Processing(NWU Coursera)

PROJECTS

Previous Research Projects

- Image and Video restoration using Computer Vision and Deep Learning methods – Optical Flow, Super Resolution, Deblurring

Spring 2019

Android app for teaching beginners the music notes

- Java
- Android Studio
- UI

Commerce Bank Group Project

- Create a web page to offer ways to manage your financial spending
- Design SQL databases for the project
- Use T-SQL and SSIS to connect to Commerce bank database