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Satvik Kishore

Education

Duke UniversityDurham, NC

Masters in Interdisciplinary Data Science

2021-2023

Relevant Courses: Statistics, Machine Learning, Cloud Engineering, Natural Language Processing, Computer Vision and Medical Imaging, Causal Inference

Indian Institute of Technology Madras

Chennai, India

B.Tech., Materials Engineering; Minor in Industrial Engineering

2013-2017

Relevant Courses: Probability, Decision Modeling, Pattern Recognition, Operations Research, Computational Engineering

Technical Skills:

- Python: PyTorch, Tensorflow (Keras), Pandas, Scikit-Learn, Flask
- R: data.table, ggplot
- git, docker

Certifications

AWS Machine Learning Specialty

Publications

- Kishore, S., Thomas, T., Sachdev, H., Kurpad, A. V., & Webb, P. (2022) Modeling the potential impacts of improved monthly income on child stunting in India: a subnational geospatial perspective. *BMJ Open*, 12:e055098. https://doi.org/10.1136/bmjopen-2021-055098
- Shivakumar, N., Kashyap, S., Kishore, S., Thomas, T., Varkey, A., Devi, S., Preston, T., Jahoor, F., Sheshshayee, M. S., & Kurpad, A. V. (2019). Protein-quality evaluation of complementary foods in Indian children. The *American journal of clinical nutrition*, 109(5), 1319–1327. https://doi.org/10.1093/ajcn/nqy265

Research Experience

Interpretable AI for diagnosing breast cancer

Summer 2022-Present

- Building convolutional neural networks with additional prototype layers.
- These models provide diagnoses on malignancy of breast tissue along with informing the physician why the model has made the prediction.

Earthquake Early Warning Detection, Duke University

Summer 2022

- Built a prototype Machine Learning model to detect incoming Earthquakes from seismological data.
- Improved upon state the current state of the art methods by 40%.

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Professional Experience

Data Scientist, St. John's Research Institute

2017-2021

Projects

Brain Tumor Segmentation

Spring 2022

• Built machine Learning Models to segment brain tumour images and detect regions where tumor exists

Optimizing CT scan slice count through Lesion detection using YOLO

Spring 2022

• Simulated CT scans and optimzed number of CT slices needed to detect lesions

Does Airbnb listing's annual revenue vary by with host status?

Spring 2022

• causal inference from airbnb

AWS Cloud Tweet Generator

Fall 2021

• An AWS powered tool that generates new relevant tweets everyday

Star Trek: Analysis of Episodes

Fall 2021

• A statistical analysis of four star trek TV shows to evaluate character perception.